



FCC RF Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT2409-1,XT2409-6
FCC ID : IHDT56AS6
STANDARD : FCC Part 15 Subpart E §15.407
CLASSIFICATION : (NII) Unlicensed National Information Infrastructure
TEST DATE(S) : May 28, 2024 ~ Jun. 24, 2024

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (Kunshan)

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR452307E	Rev. 01	Initial issue of report	Jul. 02, 2024



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit for U-NII-1/2A/2C	Limit for U-NII-3	Result	Remark
3.1	2.1049 & 15.403(i)	6dB, 26dB & 99% Bandwidth	-	6dB Bandwidth > 500kHz	Pass	-
3.2	15.407(a)	Maximum Conducted Output Power	≤ 24 dBm	≤ 30 dBm	Pass	-
3.3	15.407(a)	Power Spectral Density	≤ 11 dBm/MHz	≤ 30 dBm/500kHz	Pass	-
3.4	15.407(b)	Unwanted Emissions	15.407(b) & 15.209(a)	15.407(b)(4)(i) & 15.209(a)	Pass	Under limit 3.02 dB at 2483.970 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	15.207(a)	Pass	Under limit 11.78 dB at 0.497 MHz
3.6	15.203 & 15.407(a)	Antenna Requirement	15.203 & 15.407(a)	15.203 & 15.407(a)	Pass	-

Conformity Assessment Condition:

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
- The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



1 General Description

1.1 Applicant

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.2 Manufacturer

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2409-1,XT2409-6
FCC ID	IHDT56AS6
IMEI/SN Code	Conducted: 364637960031517/364637960031525 Conduction: 354637960030196/354637960030204 Radiation: N74E260174
HW Version	DVT2
SW Version	UUI34.42
EUT Stage	Identical Prototype

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. The two models are only different for market segment, all the others are the same.



1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	5180 MHz ~ 5240 MHz 5260 MHz ~ 5320 MHz 5500 MHz ~ 5720 MHz 5745 MHz ~ 5825 MHz
Maximum Output Power to Antenna	<p>MIMO <Ant. 5 + 7></p> <p><5180 MHz ~ 5240 MHz> 802.11a : 19.93 dBm / 0.0984 W 802.11n HT20 : 20.14 dBm / 0.1033 W 802.11n HT40 : 19.17 dBm / 0.0826 W 802.11ac VHT20: 20.22 dBm / 0.1052 W 802.11ac VHT40: 19.20 dBm / 0.0832 W 802.11ac VHT80: 12.60 dBm / 0.0182 W 802.11ax HE20: 20.27 dBm / 0.1064 W 802.11ax HE40: 19.29 dBm / 0.0849 W 802.11ax HE80: 12.64 dBm / 0.0184 W</p> <p><5260 MHz ~ 5320 MHz> 802.11a : 20.32 dBm / 0.1076 W 802.11n HT20 : 20.88 dBm / 0.1225 W 802.11n HT40 : 19.22 dBm / 0.0836 W 802.11ac VHT20: 20.95 dBm / 0.1245 W 802.11ac VHT40: 19.26 dBm / 0.0843 W 802.11ac VHT80: 13.19 dBm / 0.0208 W 802.11ax HE20: 20.99 dBm / 0.1256 W 802.11ax HE40: 19.34 dBm / 0.0859 W 802.11ax HE80: 13.25 dBm / 0.0211 W</p> <p><5500 MHz ~ 5720 MHz > 802.11a : 20.34 dBm / 0.1081W 802.11n HT20 : 20.91 dBm / 0.1233W 802.11n HT40 : 19.25 dBm / 0.0841W 802.11ac VHT20: 20.97 dBm / 0.1250W 802.11ac VHT40: 19.27 dBm / 0.0845W 802.11ac VHT80: 18.08 dBm / 0.0643W 802.11ax HE20: 21.03 dBm / 0.1268W 802.11ax HE40: 19.34 dBm / 0.0859W 802.11ax HE80: 18.16 dBm / 0.0655W</p> <p><5745 MHz ~ 5825 MHz> 802.11a : 20.98 dBm / 0.1253 W 802.11n HT20 : 20.94 dBm / 0.1242 W 802.11n HT40 : 19.07 dBm / 0.0807 W 802.11ac VHT20: 20.99 dBm / 0.1256 W 802.11ac VHT40: 19.11 dBm / 0.0815 W 802.11ac VHT80: 17.98 dBm / 0.0628 W 802.11ax HE20: 21.05 dBm / 0.1274 W 802.11ax HE40: 19.20 dBm / 0.0832 W 802.11ax HE80: 18.04 dBm / 0.0637 W</p>



<p>99% Occupied Bandwidth</p>	<p><5180 MHz ~ 5240 MHz> 802.11a : 17.183 MHz 802.11ax HE20: 19.101 MHz 802.11ax HE40: 37.802 MHz 802.11ax HE80: 78.002 MHz <5260 MHz ~ 5320 MHz> 802.11a : 17.103 MHz 802.11ax HE20: 19.141 MHz 802.11ax HE40: 37.882 MHz 802.11ax HE80: 78.002 MHz <5500 MHz ~ 5720 MHz> 802.11a : 17.183 MHz 802.11ax HE20: 19.141 MHz 802.11ax HE40: 37.882 MHz 802.11ax HE80: 78.162 MHz <5745 MHz ~ 5825 MHz> 802.11a : 17.263 MHz 802.11ax HE20: 19.101 MHz 802.11ax HE40: 37.882 MHz 802.11ax HE80: 78.002 MHz</p>
<p>Antenna Type / Gain</p>	<p><5180 MHz ~ 5240 MHz> <Ant. 5> : Loop Antenna with gain -5.30 dBi <Ant. 7> : IFA Antenna with gain -5.24 dBi <5260 MHz ~ 5320 MHz> <Ant. 5> : Loop Antenna with gain -5.30 dBi <Ant. 7> : IFA Antenna with gain -5.50 dBi <5500 MHz ~ 5720 MHz> <Ant. 5> : Loop Antenna with gain -5.50 dBi <Ant. 7> : IFA Antenna with gain -5.52 dBi <5745 MHz ~ 5825 MHz> <Ant. 5> : Loop Antenna with gain -7.00 dBi <Ant. 7> : IFA Antenna with gain -7.00 dBi</p>
<p>Type of Modulation</p>	<p>802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM) 802.11ax : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM)</p>

Note:

1. WLAN MIMO support CDD mode.
2. For WLAN SISO & MIMO mode, the whole testing has assessed only MIMO mode by referring to the higher normal output power.
3. For 802.11n HT20 / ac VHT20 / ax HE20, 802.11n HT40 / ac VHT40 / ax HE40 mode and 802.11ac VHT80 / ax HE80, the whole testing has assessed only 802.11ax HE20/HE40/HE80 by referring to their higher conducted power.
4. 802.11ax support OFDMA full RU tone and partial RU tone, both full RU and partial RU-left (for low CH) and partial RU-right (for high CH) test output power/PSD, the full RU PSD > partial RU PSD, thus full RU perform full test to cover partial RU, partial RU verify Bandedge and Spurious.



1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	CO01-KS 03CH06-KS TH01-KS	CN1257	314309

1.7 Specification of Accessory

Specification of Accessory				
AC Adapter 1(US)	Brand Name	Motorola(Chenyang)	Model Name	MC-681N
AC Adapter 1(EU)	Brand Name	Motorola(Chenyang)	Model Name	MC-682N
AC Adapter 1(UK)	Brand Name	Motorola(Chenyang)	Model Name	MC-683N
AC Adapter 1(AU)	Brand Name	Motorola(Chenyang)	Model Name	MC-685N
AC Adapter 1(BR)	Brand Name	Motorola(Chenyang)	Model Name	MC-687N
AC Adapter 2(US)	Brand Name	Motorola(Acbel)	Model Name	MC-681N
AC Adapter 2(EU)	Brand Name	Motorola(Acbel)	Model Name	MC-682N
AC Adapter 2(UK)	Brand Name	Motorola(Acbel)	Model Name	MC-683N
AC Adapter 2(AU)	Brand Name	Motorola(Acbel)	Model Name	MC-685N
AC Adapter 2(BR)	Brand Name	Motorola(Acbel)	Model Name	MC-687N
Battery 1	Brand Name	Motorola(ATL)	Model Name	QV43
Battery 2	Brand Name	Motorola(CosMX)	Model Name	QV43
USB Cable 1	Brand Name	Motorola(Hexin)	Model Name	S928E28748
USB Cable 2	Brand Name	Motorola(Juwei)	Model Name	S928E28749
USB Cable 3	Brand Name	Motorola(Saibao)	Model Name	S928E38943
Earphone	Brand Name	Motorola(Lyand)	Model Name	M1181C(SH38D62338)



1.8 Test Software

Item	Site	Manufacturer	Name	Version
1.	TH01-KS	Tonscend	JS1120-3 test system China_210602	3.3.10
2.	03CH06-KS	AUDIX	E3	210616
3.	CO01-KS	AUDIX	E3	6.2009-8-24

1.9 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 15 Subpart E
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2013

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
5180-5240 MHz U-NII-1	36	5180	44	5220
	38*	5190	46*	5230
	40	5200	48	5240
	42 [#]	5210	-	-

Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
5260-5320 MHz U-NII-2A	52	5260	60	5300
	54*	5270	62*	5310
	56	5280	64	5320
	58 [#]	5290	-	-

Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
5500-5720MHz U-NII-2C	100	5500	112	5560
	102*	5510	116	5580
	104	5520	132	5660
	106 [#]	5530	134*	5670
	108	5540	136	5680
	110*	5550	140	5700

Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
5745-5825 MHz U-NII-3	149	5745	157	5785
	151*	5755	159*	5795
	153	5765	161	5805
	155 [#]	5775	165	5825



Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
TDWR Channel	118*	5590	124	5620
	120	5600	126*	5630
	122 [#]	5610	128	5640
	-	-	-	-

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
Straddle Channel	138 [#]	5690	144	5720
	142*	5710	-	-

Note:

1. The above Frequency and Channel in "*" are 40MHz bandwidth.
2. The above Frequency and Channel in "[#]" are 80MHz bandwidth.



2.2 Test Mode

Final test modes are considering the modulation and worse data rates as below table.

MIMO Mode

Modulation	Data Rate
802.11a	6 Mbps
802.11ax HE20	MCS0
802.11ax HE40	MCS0
802.11ax HE80	MCS0

AC Conducted Emission	Mode 1 : GSM 850 Idle + Bluetooth Link + WLAN Link (5G) + USB Cable 1(Charging from Adapter1)
Remark: For Radiated Test Cases, The tests were performance with Adapter 1 and USB Cable 1	

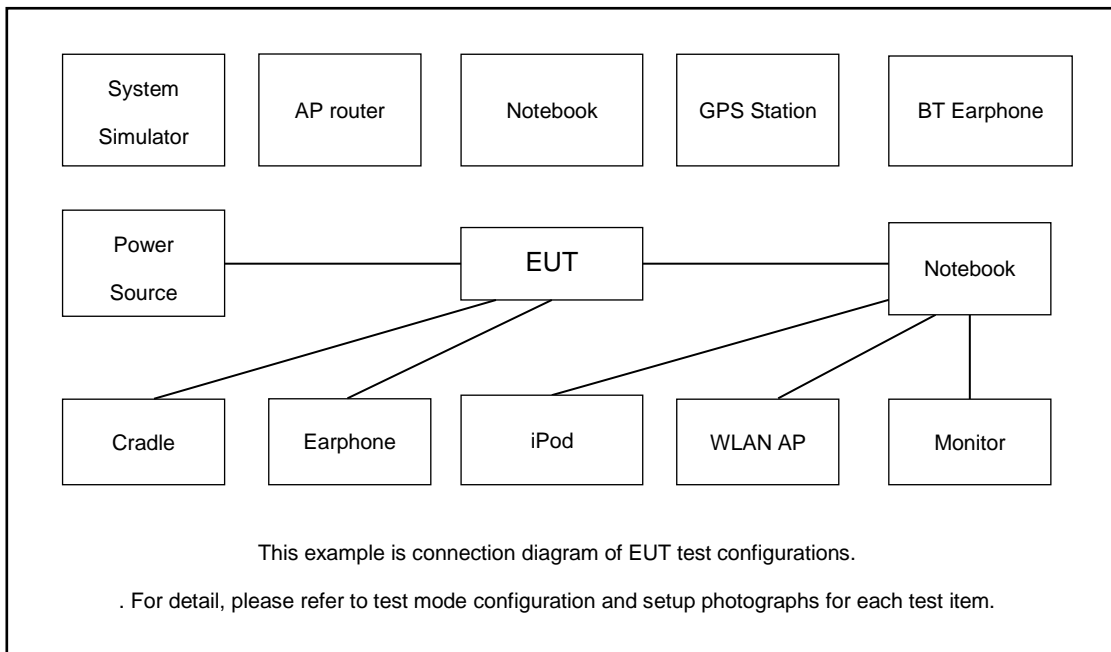


Ch. #		U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
		20M BW	20M BW	20M BW	20M BW
L	Low	36	52	100	149
M	Middle	44	60	116	157
H	High	48	64	140	165
Straddle		-	-	144	-

Ch. #		U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
		40M BW	40M BW	40M BW	40M BW
L	Low	38	54	102	151
M	Middle	-	-	110	-
H	High	46	62	134	159
Straddle		-	-	142	-

Ch. #		U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
		80M BW	80M BW	80M BW	80M BW
L	Low	-	-	106	-
M	Middle	42	58	-	155
H	High	-	-	122	-
Straddle		-	-	138	-

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	LTE Base Station	Anritsu	MT8821C	N/A	N/A	Unshielded,1.8m
2.	WLAN AP	D-link	DIR-655	KA21R655B1	N/A	Unshielded,1.8m
3.	Notebook	Lenovo	G480	QDS-BRCM1050I	N/A	shielded cable DC O/P 1.8m , Unshielded AC I/P cable 1.8m
4.	Bluetooth Earphone	Lenovo	thinkplus-BH3	N/A	N/A	N/A
5.	SD Card	Kingston	8GB	N/A	N/A	N/A



2.5 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuously transmit.

For AC power line conducted emissions, the EUT was set to connect with the WLAN AP under large package sizes transmission.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.58 dB and 10dB attenuator.

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 4.58 + 10 = 14.58 \text{ (dB)} \end{aligned}$$



3 Test Result

3.1 6dB and 26dB and 99% Occupied Bandwidth Measurement

3.1.1 Description of 6dB and 26dB and 99% Occupied Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

26dB and 99% Occupied bandwidth are reporting only.

3.1.2 Measuring Instruments

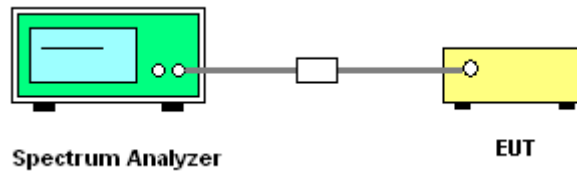
The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

- The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

<input checked="" type="checkbox"/>	Section C) Bandwidth Measurement 1. Emission Bandwidth (EBW) and 99% OBW
	<ol style="list-style-type: none"> Set RBW = approximately 1% of the emission bandwidth. Set the VBW > RBW. Detector = Peak. Trace mode = max hold Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set to 1%~5% of the OBW and set the Video bandwidth (VBW) ≥ 3 * RBW. Measure and record the results in the test report.
<input checked="" type="checkbox"/>	Section C) Bandwidth Measurement 2. Minimum Emission Bandwidth for the band 5.725 - 5.85 GHz
	<ol style="list-style-type: none"> Set RBW = 100kHz. Set the VBW ≥ 3 x RBW. Detector = Peak. Trace mode = max hold Measure the maximum width of the emission that is 6 dB down from the peak of the emission. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 6dB Bandwidth

Please refer to Appendix A.



3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW.

For the 5.25–5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log_{10} B$, where B is the 26 dB emission bandwidth in megahertz.

For the band 5.725–5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

For the 5.47–5.6 GHz and 5.65–5.725 GHz band, the maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever power is less. The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz.

For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note that U-NII-2 band, devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

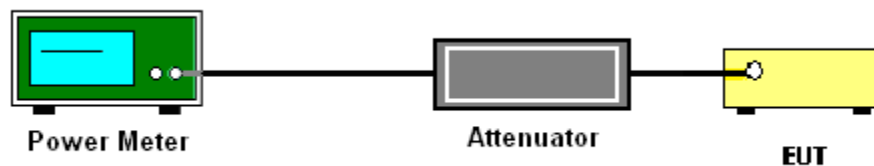
The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Method PM (Measurement using an RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
3. Measure the average power of the transmitter, and the average power is corrected with duty factor, $10 \log(1/x)$, where x is the duty cycle.
4. For MIMO mode, the measure-and-sum technique should be used for measuring the in-band transmit power of a device.

For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.



3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum power spectral density shall not exceed 11dBm in any 1 megahertz band.

For the 5.25–5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

For the band 5.725–5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.



3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04.
Section F) Maximum power spectral density.

For devices operating in the bands UNII-1/2A/2C

Method SA-2

(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW \geq 3 MHz.
- Number of points in sweep \geq 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add $10 \log(1/0.25) = 6$ dB if the duty cycle is 25 percent.

For devices operating in the band UNII-3

Method SA-2

(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

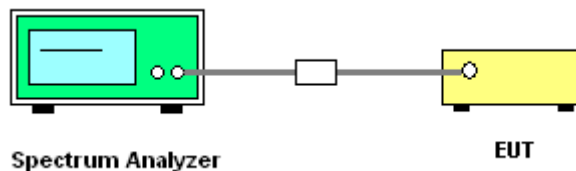
- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 500KHz (or 300 kHz if the SA can't set RBW=500KHz).
- Set VBW \geq 1 MHz.
- Number of points in sweep \geq 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- If the SA can't set RBW=500KHz, then add $10 \log(500\text{kHz}/\text{RBW})$ to the test result.
- Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add $10 \log(1/0.25) = 6$ dB if the duty cycle is 25 percent.

1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.
3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Method (b): Measure and sum spectral maxima across the outputs.

The measurement on each individual output were performed with the same span and number on each individual output. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



3.4 Unwanted Emissions Measurement

This section as specified in FCC Part 15.407(b) is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement. The unwanted emissions shall comply with 15.407(b)(1) to (6), and restricted bands per FCC Part 15.205.

3.4.1 Limit of Unwanted Emissions

- (1) For transmitters operating in the 5150-5250 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27 dBm/MHz.

For transmitters operating in the 5250-5350 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5250-5350 MHz band that generate emissions in the 5150-5250 MHz band must meet all applicable technical requirements for operation in the 5150-5250 MHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5150-5250 MHz band.

For transmitters operating in the 5470-5600 MHz and 5650-5725 MHz band: all emissions outside of the 5470-5600 MHz and 5650-5725 MHz band shall not exceed an EIRP of -27 dBm/MHz.

- (2) For transmitters operating in the 5.725-5.85 GHz band:
15.407(b)(4)(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.



(3) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as below table,

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

(4) EIRP (dBm)	Field Strength at 3m (dBµV/m)
- 27	68.2

Note: The following formula is used to convert the EIRP to field strength.

$$EIRP = E_{Meas} + 20\log (d_{Meas}) - 104.7$$

where

EIRP is the equivalent isotropically radiated power, in dBm

E_{Meas} is the field strength of the emission at the measurement distance, in dBµV/m

d_{Meas} is the measurement distance, in m

(4) ANSI C63.10-2013 clause 12.7.3 note 97

As specified by regulatory requirements, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit. However, an out-of-band emission that complies with both the average and peak general regulatory limits is not required to satisfy the peak emission limit.

3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.



3.4.3 Test Procedures

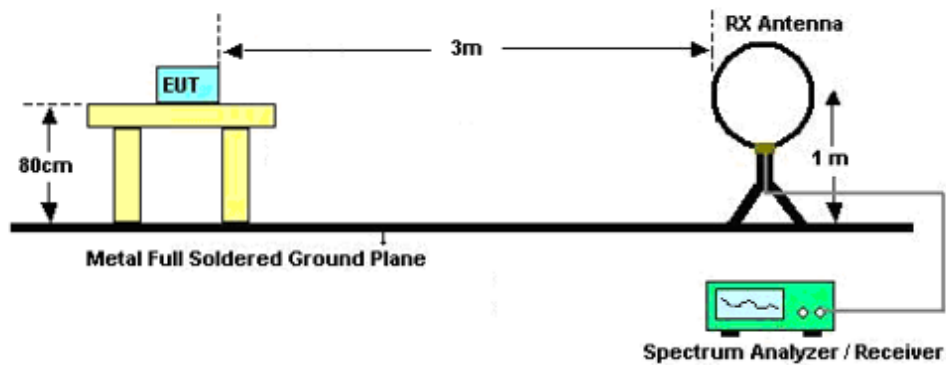
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04. Section G) Unwanted emissions measurement.
 - (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold
 - (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW \geq 3 MHz
 - Detector = Peak
 - Sweep time = auto
 - Trace mode = max hold
 - (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
 - RBW = 1 MHz
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW \geq 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on.
 - (4) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
 - RBW = 1 MHz
 - VBW = 3 MHz
 - Detector = power averaging (rms), set span/(# of points in sweep) \geq RBW/2.
 - Averaging type = power averaging(RMS)
 - The correction factor shall be offset is 10 log (1/x), where x is the duty cycle.
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the

limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.

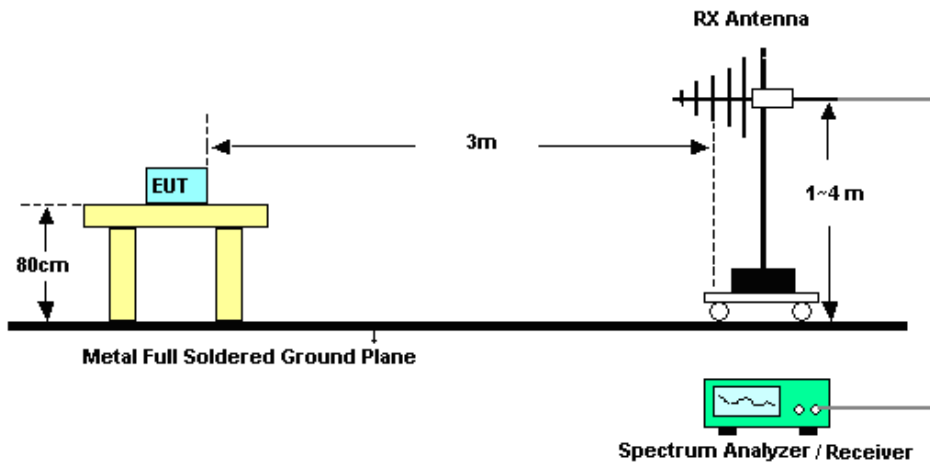
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.4.4 Test Setup

For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz





3.4.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C.

3.4.7 Duty Cycle

Please refer to Appendix D.

3.4.8 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic)

Please refer to Appendix C.



3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dBµV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

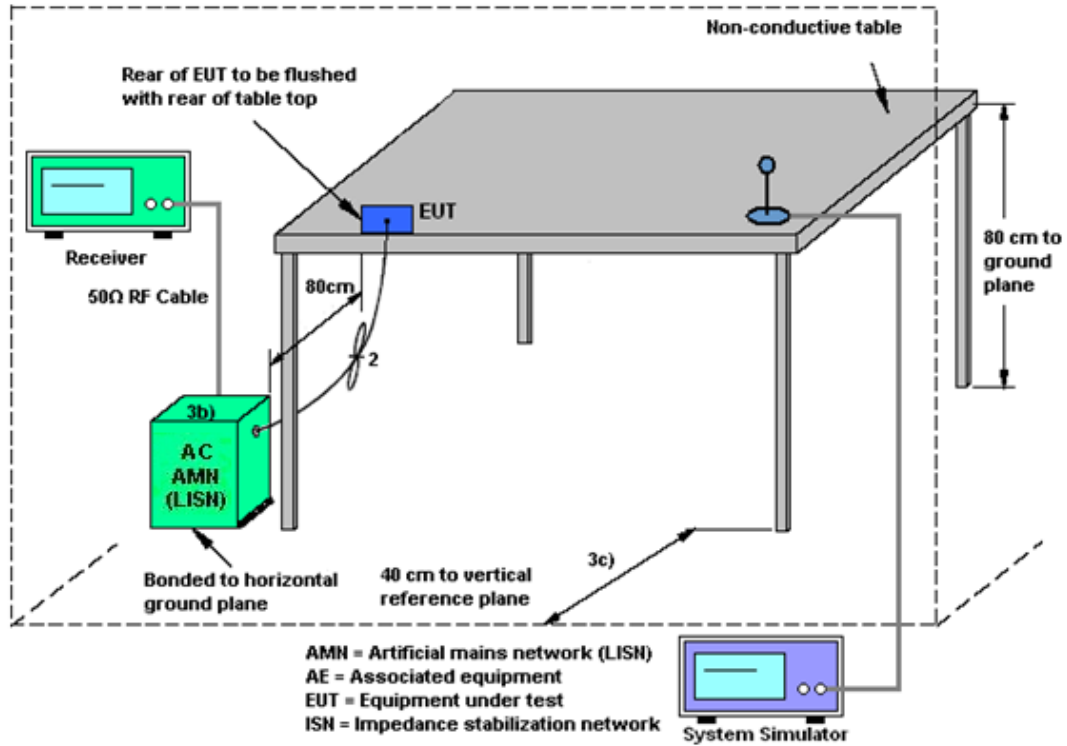
3.5.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.6 Antenna Requirements

3.6.1 Standard Applicable

According to FCC 47 CFR Section 15.407(a)(1)(2) ,if transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.6.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = GANT + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain = 10 log(NANT/NSS=1) dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4.

Directional gain may be calculated by using the formulas applicable to equal gain antennas with GANT set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

For power, the directional gain GANT is set equal to the antenna having the highest gain, i.e., F)2)f)i).

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain “DG” is calculated as following table.

<CDD Modes>						
	Ant. 5 (dBi)	Ant. 7 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
UNII-1	-5.30	-5.24	-5.24	-2.26	0.00	0.00
UNII-2A	-5.30	-5.50	-5.30	-2.39	0.00	0.00
UNII-2C	-5.50	-5.52	-5.50	-2.50	0.00	0.00
UNII-3	-7.00	-7.00	-7.00	-3.99	0.00	0.00

Power limit reduction = Composite gain – 6dBi, (min = 0)

PSD limit reduction = Composite gain + PSD Array gain – 6dBi, (min = 0)



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 11, 2023	May 28, 2024 ~Jun. 24, 2024	Oct. 10, 2024	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1435004	50MHz Bandwidth	Jan. 02, 2024	May 28, 2024 ~Jun. 24, 2024	Jan. 01, 2025	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 02, 2024	May 28, 2024 ~Jun. 24, 2024	Jan. 01, 2025	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY56400004	3Hz~8.5GHz; Max 30dBm	Oct. 10, 2023	Jun. 20, 2024	Oct. 09, 2024	Radiation (03CH06-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY60242126	10Hz~44GHz	Oct. 10, 2023	Jun. 20, 2024	Oct. 09, 2024	Radiation (03CH06-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 10, 2023	Jun. 20, 2024	Oct. 09, 2024	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6111D	59913	30MHz~1GHz	Aug. 19, 2023	Jun. 20, 2024	Aug. 18, 2024	Radiation (03CH06-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00240132	1GHz~18GHz	Jul. 12, 2023	Jun. 20, 2024	Jul. 11, 2024	Radiation (03CH06-KS)
SHF-EHF Horn	Com-power	AH-840	101093	18GHz~40GHz	Jan. 05, 2024	Jun. 20, 2024	Jan. 04, 2025	Radiation (03CH06-KS)
Amplifier	SONOMA	310N	380827	9KHz ~1GHZ	Jul. 06, 2023	Jun. 20, 2024	Jul. 05, 2024	Radiation (03CH06-KS)
Amplifier	MITEQ	EM18G40GGA	060728	18~40GHz	Jan. 04, 2024	Jun. 20, 2024	Jan. 03, 2025	Radiation (03CH06-KS)
high gain Amplifier	MITEQ	AMF-7D-0010 1800-30-10P	2082395	1Ghz-18Ghz	Jan. 04, 2024	Jun. 20, 2024	Jan. 03, 2025	Radiation (03CH06-KS)
Amplifier	Keysight	83017A	MY53270319	500MHz~26.5GHz	Oct. 10, 2023	Jun. 20, 2024	Oct. 09, 2024	Radiation (03CH06-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jun. 20, 2024	NCR	Radiation (03CH06-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jun. 20, 2024	NCR	Radiation (03CH06-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jun. 20, 2024	NCR	Radiation (03CH06-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 18, 2024	Jun. 16, 2024	Apr. 17, 2025	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 11, 2023	Jun. 16, 2024	Oct. 10, 2024	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	Apr. 18, 2024	Jun. 16, 2024	Apr. 17, 2025	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP00000811	AC 0V~300V, 45Hz~1000Hz	Oct. 11, 2023	Jun. 16, 2024	Oct. 10, 2024	Conduction (CO01-KS)

NCR: No Calibration Required



5 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Conducted Spurious Emission & Bandedge	±2.26 dB
Occupied Channel Bandwidth	±0.1%
Conducted Power	±0.46 dB
Conducted Power Spectral Density	±0.88 dB
Frequency	±0.4 Hz

Uncertainty of AC Conducted Emission Measurement (0.15 MHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.84dB
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Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.30dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	6.06dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.18dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.38dB
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----- THE END -----



Appendix A. Conducted Test Results

A1. Conducted Test Results

Test Engineer:	Jiang Jun	Temperature:	21~25	°C
Test Date:	2024.5.28~2024.6.24	Relative Humidity:	51~54	%

TEST RESULTS DATA
Average Power Table

FCC U-NII-1 MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail	Power Setting	
					Ant 5	Ant 7	Ant 5	Ant 7	SUM	Ant 5	Ant 7	Ant 5	Ant 7		Ant 5	Ant 7
11a	6Mbps	2	36	5180	0.14	0.14	13.81	13.87	16.85	24.00	24.00	-5.24	Pass	14		
11a	6Mbps	2	40	5200	0.14	0.14	16.95	16.88	19.92	24.00	24.00	-5.24	Pass	17		
11a	6Mbps	2	44	5220	0.14	0.14	17.06	16.73	19.91	24.00	24.00	-5.24	Pass	17		
11a	6Mbps	2	48	5240	0.14	0.14	17.13	16.70	19.93	24.00	24.00	-5.24	Pass	17		
HT20	MCS0	2	36	5180	0.15	0.13	13.30	13.29	16.31	24.00	24.00	-5.24	Pass	13.5		
HT20	MCS0	2	40	5200	0.15	0.13	16.81	16.58	19.71	24.00	24.00	-5.24	Pass	17		
HT20	MCS0	2	44	5220	0.15	0.13	17.29	16.92	20.12	24.00	24.00	-5.24	Pass	17.5		
HT20	MCS0	2	48	5240	0.15	0.13	17.40	16.85	20.14	24.00	24.00	-5.24	Pass	17.5		
HT40	MCS0	2	38	5190	0.28	0.28	11.40	11.54	14.48	24.00	24.00	-5.24	Pass	11.5		
HT40	MCS0	2	46	5230	0.28	0.28	16.35	15.96	19.17	24.00	24.00	-5.24	Pass	16		
VHT20	MCS0	2	36	5180	0.16	0.16	13.34	13.33	16.34	24.00	24.00	-5.24	Pass	13.5		
VHT20	MCS0	2	40	5200	0.16	0.16	16.85	16.63	19.75	24.00	24.00	-5.24	Pass	17		
VHT20	MCS0	2	44	5220	0.16	0.16	17.38	16.99	20.20	24.00	24.00	-5.24	Pass	17.5		
VHT20	MCS0	2	48	5240	0.16	0.16	17.47	16.94	20.22	24.00	24.00	-5.24	Pass	17.5		
VHT40	MCS0	2	38	5190	0.28	0.28	11.42	11.57	14.51	24.00	24.00	-5.24	Pass	11.5		
VHT40	MCS0	2	46	5230	0.28	0.28	16.38	15.99	19.20	24.00	24.00	-5.24	Pass	16		
VHT80	MCS0	2	42	5210	0.59	0.59	9.74	9.43	12.60	24.00	24.00	-5.24	Pass	10		

TEST RESULTS DATA
Average Power Table

FCC U-NII-2A MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 5	Ant 7	Ant 5	Ant 7	SUM	Ant 5	Ant 7	Ant 5	Ant 7		
11a	6Mbps	2	52	5260	0.14	0.14	16.87	16.95	19.92	23.98	-5.30		30.00	Pass	
11a	6Mbps	2	60	5300	0.14	0.14	17.35	17.28	20.32	23.98	-5.30		30.00	Pass	
11a	6Mbps	2	64	5320	0.14	0.14	14.25	14.27	17.27	23.98	-5.30		30.00	Pass	
HT20	MCS0	2	52	5260	96.65	-	17.21	17.27	20.25	23.98	-5.30		30.00	Pass	
HT20	MCS0	2	60	5300	96.65	-	17.85	17.89	20.88	23.98	-5.30		30.00	Pass	
HT20	MCS0	2	64	5320	96.65	-	15.76	15.92	18.85	23.98	-5.30		30.00	Pass	
HT40	MCS0	2	54	5270	0.28	0.28	16.22	16.19	19.22	23.98	-5.30		30.00	Pass	
HT40	MCS0	2	62	5310	0.28	0.28	11.79	11.99	14.90	23.98	-5.30		30.00	Pass	
VHT20	MCS0	2	52	5260	96.45	-	17.25	17.38	20.32	23.98	-5.30		30.00	Pass	
VHT20	MCS0	2	60	5300	96.45	-	17.91	17.97	20.95	23.98	-5.30		30.00	Pass	
VHT20	MCS0	2	64	5320	96.45	-	15.79	15.99	18.90	23.98	-5.30		30.00	Pass	
VHT40	MCS0	2	54	5270	0.28	0.28	16.26	16.23	19.26	23.98	-5.30		30.00	Pass	
VHT40	MCS0	2	62	5310	0.28	0.28	11.84	12.02	14.94	23.98	-5.30		30.00	Pass	
VHT80	MCS0	2	58	5290	0.59	0.59	10.13	10.23	13.19	23.98	-5.30		30.00	Pass	

Power Setting	
Ant 5	Ant 7
	17
	17.5
	14.5
	17.5
	18
	16
	16
	12
	17.5
	18
	16
	16
	12
	10.5

TEST RESULTS DATA
Average Power Table

FCC U-NII-2C MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 5	Ant 7	Ant 5	Ant 7	SUM	Ant 5	Ant 7	Ant 5	Ant 7		
11a	6Mbps	2	100	5500	0.14	0.14	15.21	15.66	18.45	23.98	-5.50		30.00	Pass	
11a	6Mbps	2	116	5580	0.14	0.14	16.82	17.08	19.96	23.98	-5.50		30.00	Pass	
11a	6Mbps	2	140	5700	0.14	0.14	14.85	14.97	17.92	23.98	-5.50		30.00	Pass	
HT20	MCS0	2	100	5500	0.15	0.13	16.63	17.01	19.83	23.98	-5.50		30.00	Pass	
HT20	MCS0	2	116	5580	0.15	0.13	17.08	17.48	20.29	23.98	-5.50		30.00	Pass	
HT20	MCS0	2	140	5700	0.15	0.13	15.61	15.97	18.80	23.98	-5.50		30.00	Pass	
HT40	MCS0	2	102	5510	0.28	0.28	13.42	13.84	16.65	23.98	-5.50		30.00	Pass	
HT40	MCS0	2	110	5550	0.28	0.28	15.92	16.28	19.11	23.98	-5.50		30.00	Pass	
HT40	MCS0	2	134	5670	0.28	0.28	16.05	16.32	19.20	23.98	-5.50		30.00	Pass	
VHT20	MCS0	2	100	5500	0.16	0.16	16.67	17.07	19.88	23.98	-5.50		30.00	Pass	
VHT20	MCS0	2	116	5580	0.16	0.16	17.13	17.54	20.35	23.98	-5.50		30.00	Pass	
VHT20	MCS0	2	140	5700	0.16	0.16	15.65	16.02	18.85	23.98	-5.50		30.00	Pass	
VHT40	MCS0	2	102	5510	0.28	0.28	13.45	13.87	16.68	23.98	-5.50		30.00	Pass	
VHT40	MCS0	2	110	5550	0.28	0.28	15.95	16.30	19.14	23.98	-5.50		30.00	Pass	
VHT40	MCS0	2	134	5670	0.28	0.28	16.09	16.34	19.23	23.98	-5.50		30.00	Pass	
VHT80	MCS0	2	106	5530	0.59	0.59	8.58	9.08	11.85	23.98	-5.50		30.00	Pass	
VHT80	MCS0	2	122	5610	0.59	0.59	14.81	14.90	17.86	23.98	-5.50		30.00	Pass	

Power Setting	
Ant 5	Ant 7
15.5	
17	
15	
17	
17.5	
16	
13.5	
16	
16	
17	
17.5	
16	
13.5	
16	
16	
9	
15	

FCC U-NII-2C straddle channel MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 5	Ant 7	Ant 5	Ant 7	SUM	Ant 5	Ant 7	Ant 5	Ant 7		
11a	6Mbps	2	144	5720	0.14	0.14	17.18	17.48	20.34	23.98	-5.50		30.00	Pass	
HT20	MCS0	2	144	5720	0.15	0.13	17.80	18.00	20.91	23.98	-5.50		30.00	Pass	
HT40	MCS0	2	142	5710	0.28	0.28	16.20	16.28	19.25	23.98	-5.50		30.00	Pass	
VHT20	MCS0	2	144	5720	0.16	0.16	17.84	18.08	20.97	23.98	-5.50		30.00	Pass	
VHT40	MCS0	2	142	5710	0.28	0.28	16.22	16.30	19.27	23.98	-5.50		30.00	Pass	
VHT80	MCS0	2	138	5690	0.59	0.59	14.93	15.20	18.08	23.98	-5.50		30.00	Pass	

Power Setting	
Ant 5	Ant 7
17.5	
18	
16	
18	
16	
15	

TEST RESULTS DATA
Average Power Table

FCC U-NII-1 MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail	Power Setting
						Ant 5	Ant 7	Ant 5	Ant 7	SUM	Ant 5	Ant 7	Ant 5	Ant 7		
HE20	MCS0	2	36	5180	Full	0.16	0.18	13.40	13.36	16.39	24.00		-5.24	Pass	2Tx	
HE20	MCS0	2	36	5180	26/0	0.13	0.13	4.74	4.31	7.54	24.00		-5.24	Pass	13.5	
HE20	MCS0	2	36	5180	52/37	0.06	0.06	7.50	7.69	10.61	24.00		-5.24	Pass	4.5	
HE20	MCS0	2	36	5180	106/53	0.08	0.08	10.04	10.36	13.21	24.00		-5.24	Pass	7.5	
HE20	MCS0	2	40	5200	Full	0.16	0.18	16.90	16.71	19.82	24.00		-5.24	Pass	10.5	
HE20	MCS0	2	44	5220	Full	0.16	0.18	17.41	17.07	20.25	24.00		-5.24	Pass	17	
HE20	MCS0	2	44	5220	26/0	0.13	0.13	9.17	8.82	12.01	24.00		-5.24	Pass	17.5	
HE20	MCS0	2	44	5220	52/37	0.06	0.06	12.28	11.97	15.14	24.00		-5.24	Pass	9	
HE20	MCS0	2	44	5220	106/53	0.08	0.08	15.19	14.92	18.06	24.00		-5.24	Pass	12	
HE20	MCS0	2	48	5240	Full	0.16	0.18	17.50	17.01	20.27	24.00		-5.24	Pass	15	
HE20	MCS0	2	48	5240	26/8	0.13	0.13	9.19	8.87	12.04	24.00		-5.24	Pass	17.5	
HE20	MCS0	2	48	5240	52/40	0.06	0.06	12.19	11.89	15.06	24.00		-5.24	Pass	9	
HE20	MCS0	2	48	5240	106/54	0.08	0.08	15.18	14.80	18.00	24.00		-5.24	Pass	12	
HE40	MCS0	2	38	5190	Full	0.32	0.32	11.47	11.64	14.57	24.00		-5.24	Pass	15	
HE40	MCS0	2	46	5230	Full	0.32	0.32	16.47	16.08	19.29	24.00		-5.24	Pass	11.5	
HE80	MCS0	2	42	5210	Full	0.61	0.61	9.78	9.48	12.64	24.00		-5.24	Pass	16	
														Pass	10	

TEST RESULTS DATA
Average Power Table

FCC U-NII-2A MIMO																		
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail	Power Setting	
						Ant 5	Ant 7	Ant 5	Ant 7	SUM	Ant 5	Ant 7	Ant 5	Ant 7			Ant 5	Ant 7
HE20	MCS0	2	52	5260	Full	0.16	0.18	17.29	17.45	20.38	23.98		-5.30		30.00	Pass	Ant 5	Ant 7
HE20	MCS0	2	52	5260	26/0	0.13	0.13	9.20	9.35	12.29	23.98		-5.30		30.00	Pass		17.5
HE20	MCS0	2	52	5260	52/37	0.06	0.06	12.08	12.40	15.26	23.98		-5.30		30.00	Pass		9
HE20	MCS0	2	52	5260	106/53	0.08	0.08	15.00	15.43	18.23	23.98		-5.30		30.00	Pass		12
HE20	MCS0	2	60	5300	Full	0.16	0.18	17.95	18.02	20.99	23.98		-5.30		30.00	Pass		15
HE20	MCS0	2	60	5300	26/0	0.13	0.13	9.36	9.68	12.53	23.98		-5.30		30.00	Pass		18
HE20	MCS0	2	60	5300	52/37	0.06	0.06	12.39	12.62	15.52	23.98		-5.30		30.00	Pass		9.5
HE20	MCS0	2	60	5300	106/53	0.08	0.08	15.30	15.57	18.44	23.98		-5.30		30.00	Pass		12.5
HE20	MCS0	2	64	5320	Full	0.16	0.18	15.83	16.03	18.94	23.98		-5.30		30.00	Pass		15.5
HE20	MCS0	2	64	5320	26/8	0.13	0.13	6.99	7.90	10.48	23.98		-5.30		30.00	Pass		16
HE20	MCS0	2	64	5320	52/40	0.06	0.06	10.10	10.71	13.43	23.98		-5.30		30.00	Pass		8
HE20	MCS0	2	64	5320	106/54	0.08	0.08	12.57	13.11	15.86	23.98		-5.30		30.00	Pass		11
HE40	MCS0	2	54	5270	Full	0.32	0.32	16.35	16.31	19.34	23.98		-5.30		30.00	Pass		13.5
HE40	MCS0	2	62	5310	Full	0.32	0.32	11.90	12.08	15.00	23.98		-5.30		30.00	Pass		16
HE80	MCS0	2	58	5290	Full	0.61	0.61	10.19	10.29	13.25	23.98		-5.30		30.00	Pass		12
																		10.5

TEST RESULTS DATA
Average Power Table

FCC U-NII-2C MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 5	Ant 7	Ant 5	Ant 7	SUM	Ant 5	Ant 7	Ant 5	Ant 7		
HE20	MCS0	2	100	5500	Full	0.16	0.18	16.73	17.14	19.95	23.98	-5.50		30.00	Pass	
HE20	MCS0	2	100	5500	26/0	0.13	0.13	8.87	9.59	12.25	23.98	-5.50		30.00	Pass	
HE20	MCS0	2	100	5500	52/37	0.06	0.06	12.00	12.55	15.30	23.98	-5.50		30.00	Pass	
HE20	MCS0	2	100	5500	106/53	0.08	0.08	13.54	14.65	17.14	23.98	-5.50		30.00	Pass	
HE20	MCS0	2	116	5580	Full	0.16	0.18	17.17	17.59	20.39	23.98	-5.50		30.00	Pass	
HE20	MCS0	2	116	5580	26/0	0.13	0.13	8.89	9.42	12.17	23.98	-5.50		30.00	Pass	
HE20	MCS0	2	116	5580	52/37	0.06	0.06	11.94	12.41	15.19	23.98	-5.50		30.00	Pass	
HE20	MCS0	2	116	5580	106/53	0.08	0.08	14.85	15.26	18.07	23.98	-5.50		30.00	Pass	
HE20	MCS0	2	140	5700	Full	0.16	0.18	15.69	16.07	18.89	23.98	-5.50		30.00	Pass	
HE20	MCS0	2	140	5700	26/8	0.13	0.13	7.57	8.06	10.83	23.98	-5.50		30.00	Pass	
HE20	MCS0	2	140	5700	52/40	0.06	0.06	10.09	10.74	13.44	23.98	-5.50		30.00	Pass	
HE20	MCS0	2	140	5700	106/54	0.08	0.08	12.99	13.56	16.29	23.98	-5.50		30.00	Pass	
HE40	MCS0	2	102	5510	Full	0.32	0.32	13.53	13.95	16.75	23.98	-5.50		30.00	Pass	
HE40	MCS0	2	110	5550	Full	0.32	0.32	16.05	16.38	19.23	23.98	-5.50		30.00	Pass	
HE40	MCS0	2	134	5670	Full	0.32	0.32	16.18	16.44	19.32	23.98	-5.50		30.00	Pass	
HE80	MCS0	2	106	5530	Full	0.61	0.61	8.63	9.12	11.89	23.98	-5.50		30.00	Pass	
HE80	MCS0	2	122	5610	Full	0.61	0.61	14.88	14.99	17.95	23.98	-5.50		30.00	Pass	

Power Setting	
Ant 5	Ant 7
17	
9	
12	
14.5	
17.5	
9	
12	
15	
16	
8	
10.5	
13.5	
13.5	
16	
16	
9	
15	

FCC U-NII-2C straddle channel MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 5	Ant 7	Ant 5	Ant 7	SUM	Ant 5	Ant 7	Ant 5	Ant 7		
HE20	MCS0	2	144	5720	Full	0.16	0.18	17.89	18.15	21.03	23.98	-5.50		30.00	Pass	
HE20	MCS0	2	144	5720	26/8	0.13	0.13	9.38	9.61	12.51	23.98	-5.50		30.00	Pass	
HE20	MCS0	2	144	5720	52/40	0.06	0.06	12.41	12.90	15.67	23.98	-5.50		30.00	Pass	
HE20	MCS0	2	144	5720	106/54	0.08	0.08	15.36	15.94	18.67	23.98	-5.50		30.00	Pass	
HE40	MCS0	2	142	5710	Full	0.32	0.32	16.29	16.37	19.34	23.98	-5.50		30.00	Pass	
HE80	MCS0	2	138	5690	Full	0.61	0.61	15.02	15.28	18.16	23.98	-5.50		30.00	Pass	

Power Setting	
Ant 5	Ant 7
18	
9.5	
12.5	
15.5	
16	
15	

TEST RESULTS DATA
Average Power Table

U-NII-3 MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 5	Ant 7	Ant 5	Ant 7	SUM	Ant 5	Ant 7	Ant 5	Ant 7	
11a	6Mbps	2	149	5745	0.14	0.14	17.85	18.09	20.98	30.00	30.00	-7.00	-7.00	Pass
11a	6Mbps	2	157	5785	0.14	0.14	17.62	17.93	20.79	30.00	30.00	-7.00	-7.00	Pass
11a	6Mbps	2	165	5825	0.14	0.14	18.08	17.73	20.92	30.00	30.00	-7.00	-7.00	Pass
HT20	MCS0	2	149	5745	0.15	0.13	17.85	18.00	20.94	30.00	30.00	-7.00	-7.00	Pass
HT20	MCS0	2	157	5785	0.15	0.13	17.66	17.92	20.80	30.00	30.00	-7.00	-7.00	Pass
HT20	MCS0	2	165	5825	0.15	0.13	18.09	17.75	20.93	30.00	30.00	-7.00	-7.00	Pass
HT40	MCS0	2	151	5755	0.28	0.28	15.93	16.18	19.07	30.00	30.00	-7.00	-7.00	Pass
HT40	MCS0	2	159	5795	0.28	0.28	15.76	16.17	18.98	30.00	30.00	-7.00	-7.00	Pass
VHT20	MCS0	2	149	5745	0.16	0.16	17.89	18.07	20.99	30.00	30.00	-7.00	-7.00	Pass
VHT20	MCS0	2	157	5785	0.16	0.16	17.69	18.00	20.86	30.00	30.00	-7.00	-7.00	Pass
VHT20	MCS0	2	165	5825	0.16	0.16	18.15	17.81	20.99	30.00	30.00	-7.00	-7.00	Pass
VHT40	MCS0	2	151	5755	0.28	0.28	15.97	16.22	19.11	30.00	30.00	-7.00	-7.00	Pass
VHT40	MCS0	2	159	5795	0.28	0.28	15.81	16.21	19.03	30.00	30.00	-7.00	-7.00	Pass
VHT80	MCS0	2	155	5775	0.59	0.59	14.85	15.08	17.98	30.00	30.00	-7.00	-7.00	Pass

Power Setting	
Ant 5	Ant 7
18	18
18	18
18	18
18	18
18	18
16	16
16	16
18	18
18	18
16	16
16	16
15	15

TEST RESULTS DATA
Average Power Table

U-NII-3 MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
						Ant 5	Ant 7	Ant 5	Ant 7	SUM	Ant 5	Ant 7	Ant 5	Ant 7	
HE20	MCS0	2	149	5745	Full	0.16	0.18	17.94	18.12	21.04	30.00	-7.00		Pass	
HE20	MCS0	2	149	5745	26/0	0.13	0.13	9.40	10.09	12.77	30.00	-7.00		Pass	
HE20	MCS0	2	149	5745	52/37	0.06	0.06	12.51	12.94	15.74	30.00	-7.00		Pass	
HE20	MCS0	2	149	5745	106/53	0.08	0.08	15.51	16.03	18.79	30.00	-7.00		Pass	
HE20	MCS0	2	157	5785	Full	0.16	0.18	17.75	18.05	20.91	30.00	-7.00		Pass	
HE20	MCS0	2	157	5785	26/0	0.13	0.13	9.08	9.79	12.46	30.00	-7.00		Pass	
HE20	MCS0	2	157	5785	52/37	0.06	0.06	12.24	12.82	15.55	30.00	-7.00		Pass	
HE20	MCS0	2	157	5785	106/53	0.08	0.08	15.15	15.79	18.49	30.00	-7.00		Pass	
HE20	MCS0	2	165	5825	Full	0.16	0.18	18.21	17.86	21.05	30.00	-7.00		Pass	
HE20	MCS0	2	165	5825	26/8	0.13	0.13	9.62	9.49	12.56	30.00	-7.00		Pass	
HE20	MCS0	2	165	5825	52/40	0.06	0.06	12.79	12.63	15.72	30.00	-7.00		Pass	
HE20	MCS0	2	165	5825	106/54	0.08	0.08	15.84	15.67	18.76	30.00	-7.00		Pass	
HE40	MCS0	2	151	5755	Full	0.32	0.32	16.07	16.31	19.20	30.00	-7.00		Pass	
HE40	MCS0	2	159	5795	Full	0.32	0.32	15.91	16.30	19.12	30.00	-7.00		Pass	
HE80	MCS0	2	155	5775	Full	0.61	0.61	14.89	15.17	18.04	30.00	-7.00		Pass	

Power Setting	
Ant 5	Ant 7
18	
9.5	
12.5	
15.5	
18	
9.5	
12.5	
15.5	
18	
9.5	
12.5	
15.5	
16	
16	
15	



Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	26dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A-CDD	Ant5	5180	21.20	5169.50	5190.70	---	---
	Ant7	5180	24.10	5169.10	5193.20	---	---
	Ant5	5200	19.90	5189.90	5209.80	---	---
	Ant7	5200	21.00	5189.80	5210.80	---	---
	Ant5	5220	20.50	5210.10	5230.60	---	---
	Ant7	5220	20.90	5209.80	5230.70	---	---
	Ant5	5240	20.10	5230.00	5250.10	---	---
	Ant7	5240	23.40	5228.30	5251.70	---	---
	Ant5	5260	20.80	5249.90	5270.70	---	---
	Ant7	5260	26.60	5247.60	5274.20	---	---
	Ant5	5300	19.90	5290.00	5309.90	---	---
	Ant7	5300	22.50	5288.40	5310.90	---	---
	Ant5	5320	20.20	5310.00	5330.20	---	---
	Ant7	5320	24.20	5307.80	5332.00	---	---
	Ant5	5500	20.30	5489.90	5510.20	---	---
	Ant7	5500	26.50	5487.40	5513.90	---	---
	Ant5	5580	21.10	5569.70	5590.80	---	---
	Ant7	5580	25.60	5566.60	5592.20	---	---
	Ant5	5700	21.00	5689.30	5710.30	---	---
	Ant7	5700	21.00	5691.40	5713.20	---	---
	Ant5	5720	20.90	5709.60	5730.50	---	---
	Ant7	5720	24.70	5708.50	5733.20	---	---
	Ant5	5745	20.50	5734.80	5755.30	---	---
	Ant7	5745	23.50	5733.10	5756.60	---	---
Ant5	5785	21.40	5774.10	5795.50	---	---	
Ant7	5785	23.60	5773.30	5796.90	---	---	
Ant5	5825	21.90	5813.90	5835.80	---	---	
Ant7	5825	22.70	5813.60	5836.30	---	---	
11AX20MIMO	Ant5	5180	21.60	5169.70	5192.00	---	---
	Ant7	5180	22.50	5169.40	5191.90	---	---
	Ant5	5200	22.10	5189.10	5211.20	---	---
	Ant7	5200	21.10	5189.50	5210.60	---	---
	Ant5	5220	21.10	5209.70	5230.80	---	---
	Ant7	5220	21.10	5209.40	5230.50	---	---
	Ant5	5240	21.40	5229.30	5250.70	---	---
	Ant7	5240	23.80	5227.20	5251.00	---	---
	Ant5	5260	21.20	5249.40	5270.60	---	---



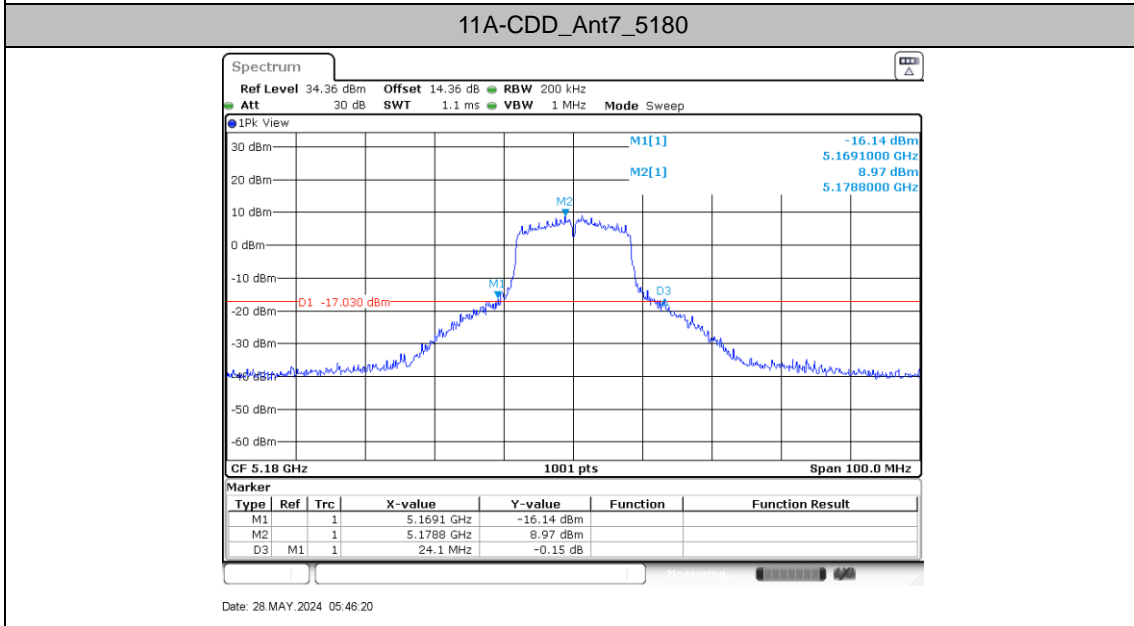
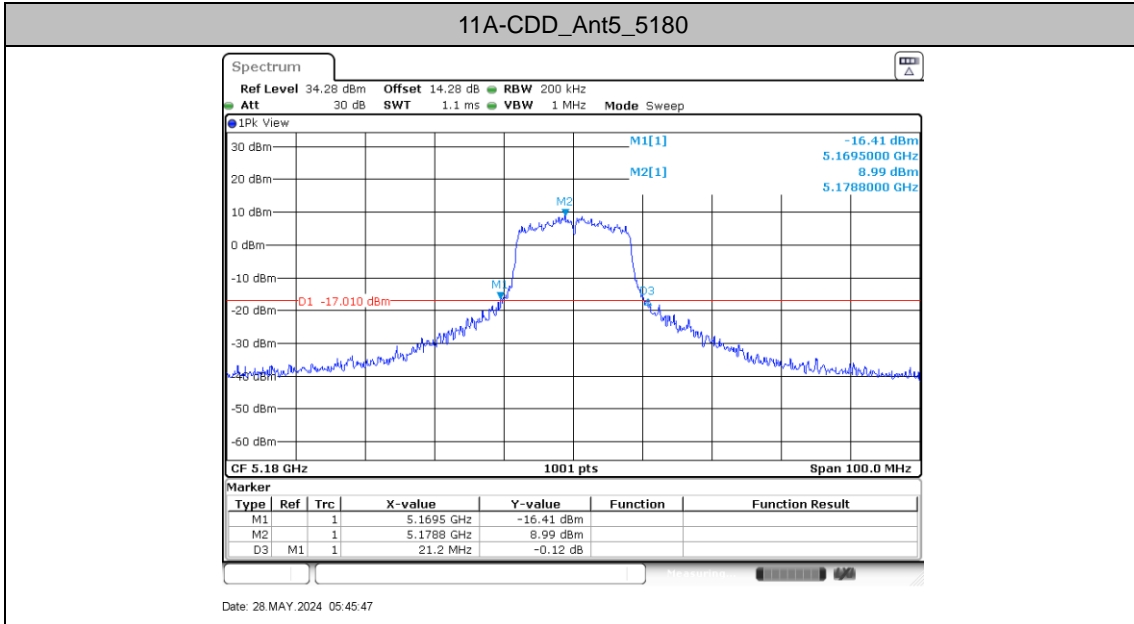
	Ant7	5260	23.00	5248.50	5271.50	---	---
	Ant5	5300	22.60	5288.10	5310.70	---	---
	Ant7	5300	24.80	5288.10	5312.90	---	---
	Ant5	5320	22.30	5308.90	5331.20	---	---
	Ant7	5320	23.50	5307.50	5331.00	---	---
	Ant5	5500	21.60	5489.30	5510.90	---	---
	Ant7	5500	24.20	5488.90	5513.10	---	---
	Ant5	5580	21.30	5569.40	5590.70	---	---
	Ant7	5580	25.90	5567.70	5593.60	---	---
	Ant5	5700	21.90	5689.10	5711.00	---	---
	Ant7	5700	22.10	5669.70	5718.80	---	---
	Ant5	5720	21.40	5709.30	5730.70	---	---
	Ant7	5720	21.30	5709.50	5730.80	---	---
	Ant5	5745	21.70	5734.40	5756.10	---	---
	Ant7	5745	21.90	5733.70	5755.60	---	---
	Ant5	5785	21.90	5774.00	5795.90	---	---
	Ant7	5785	21.80	5774.20	5796.00	---	---
	Ant5	5825	22.00	5814.00	5836.00	---	---
	Ant7	5825	23.10	5814.00	5837.10	---	---
	11AX40MIMO	Ant5	5190	39.80	5170.20	5210.00	---
Ant7		5190	39.80	5170.20	5210.00	---	---
Ant5		5230	39.80	5210.20	5250.00	---	---
Ant7		5230	39.80	5210.20	5250.00	---	---
Ant5		5270	39.60	5250.20	5289.80	---	---
Ant7		5270	39.60	5250.40	5290.00	---	---
Ant5		5310	39.60	5290.40	5330.00	---	---
Ant7		5310	39.80	5290.20	5330.00	---	---
Ant5		5510	39.60	5490.40	5530.00	---	---
Ant7		5510	39.60	5490.40	5530.00	---	---
Ant5		5550	39.40	5530.40	5569.80	---	---
Ant7		5550	39.60	5530.40	5570.00	---	---
Ant5		5670	39.60	5650.40	5690.00	---	---
Ant7		5670	39.60	5650.40	5690.00	---	---
Ant5		5710	39.60	5690.40	5730.00	---	---
Ant7		5710	39.60	5690.20	5729.80	---	---
Ant5		5755	39.60	5735.40	5775.00	---	---
Ant7		5755	39.60	5735.40	5775.00	---	---
Ant5		5795	39.80	5775.20	5815.00	---	---
Ant7		5795	39.60	5775.40	5815.00	---	---
11AX80MIMO	Ant5	5210	80.40	5170.00	5250.40	---	---
	Ant7	5210	80.40	5170.00	5250.40	---	---
	Ant5	5290	80.40	5250.00	5330.40	---	---



	Ant7	5290	80.80	5250.00	5330.80	---	---
	Ant5	5530	80.80	5490.00	5570.80	---	---
	Ant7	5530	80.40	5490.00	5570.40	---	---
	Ant5	5610	80.40	5570.00	5650.40	---	---
	Ant7	5610	80.40	5570.00	5650.40	---	---
	Ant5	5690	80.80	5650.00	5730.80	---	---
	Ant7	5690	80.40	5650.00	5730.40	---	---
	Ant5	5775	80.80	5735.00	5815.80	---	---
	Ant7	5775	80.80	5735.00	5815.80	---	---

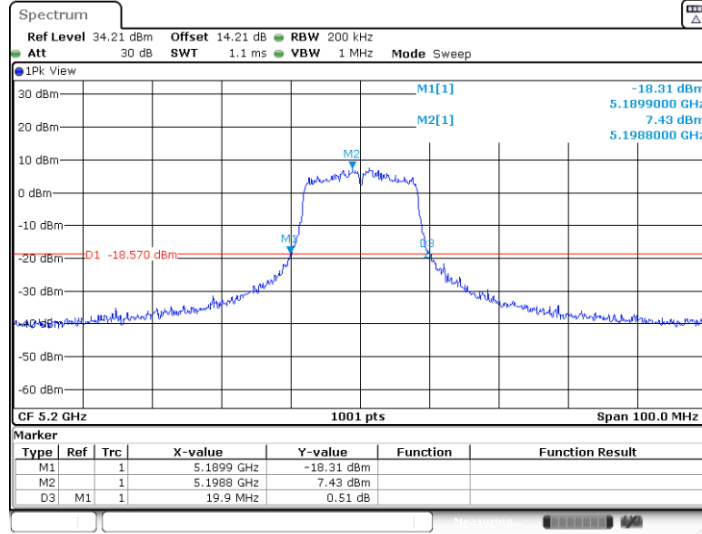


Test Graphs



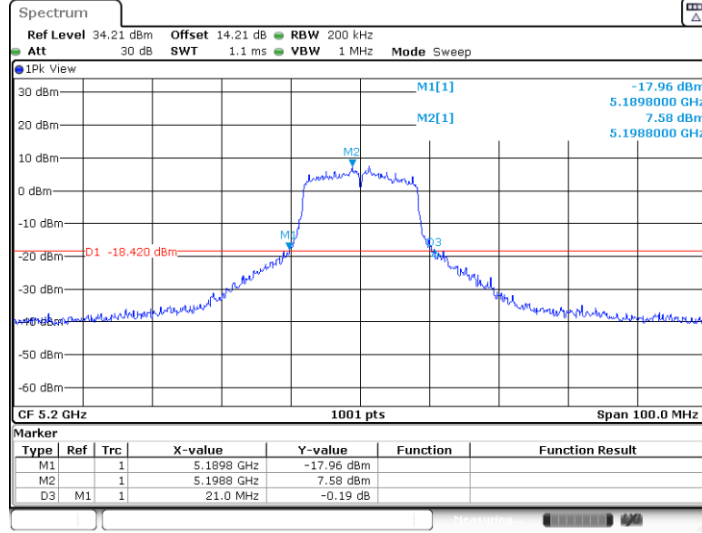


11A-CDD_Ant5_5200



Date: 22.JUN.2024 14:11:30

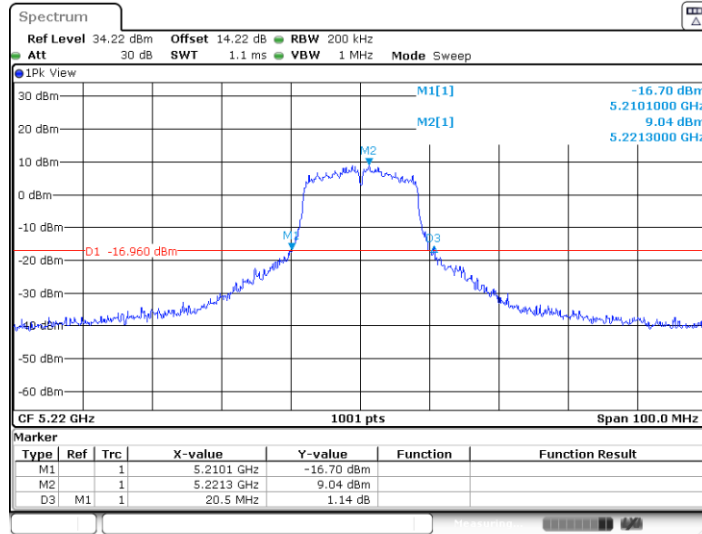
11A-CDD_Ant7_5200



Date: 22.JUN.2024 14:12:32

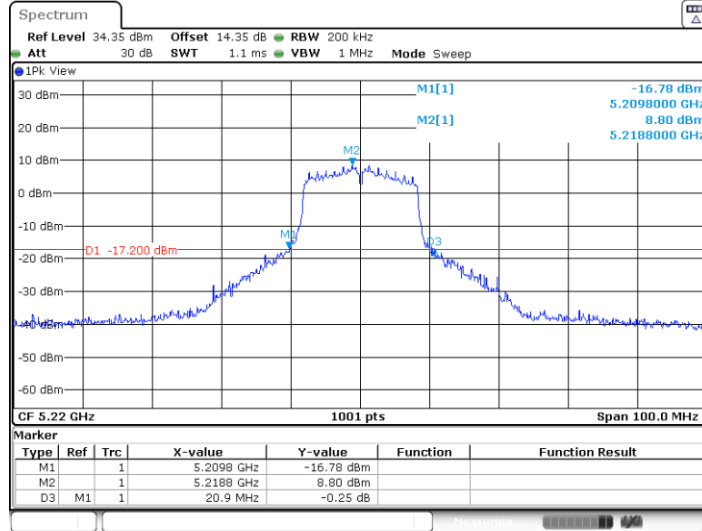


11A-CDD_Ant5_5220



Date: 28 MAY 2024 05:47:09

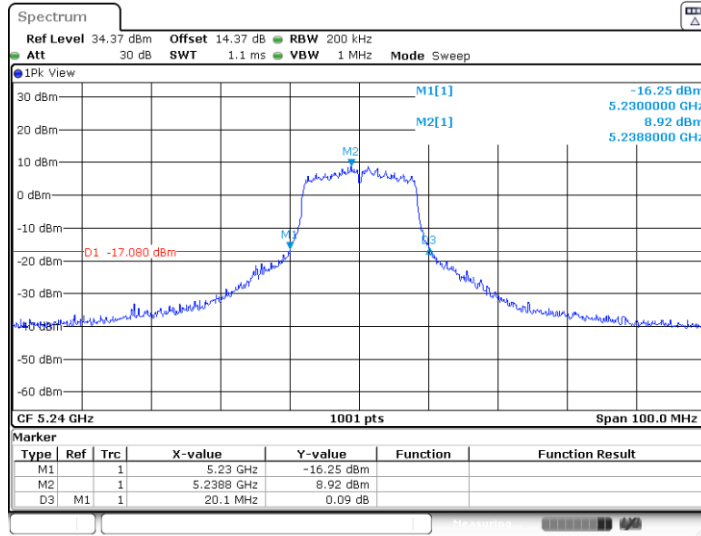
11A-CDD_Ant7_5220



Date: 28 MAY 2024 05:47:32

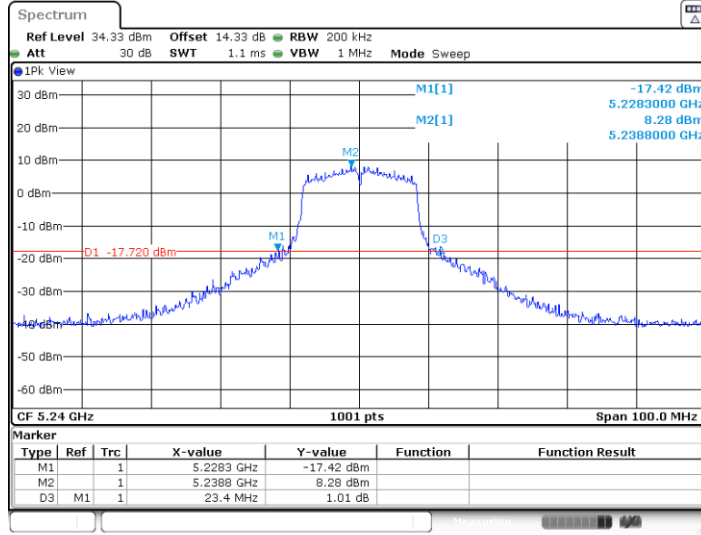


11A-CDD_Ant5_5240



Date: 28 MAY 2024 05:48:24

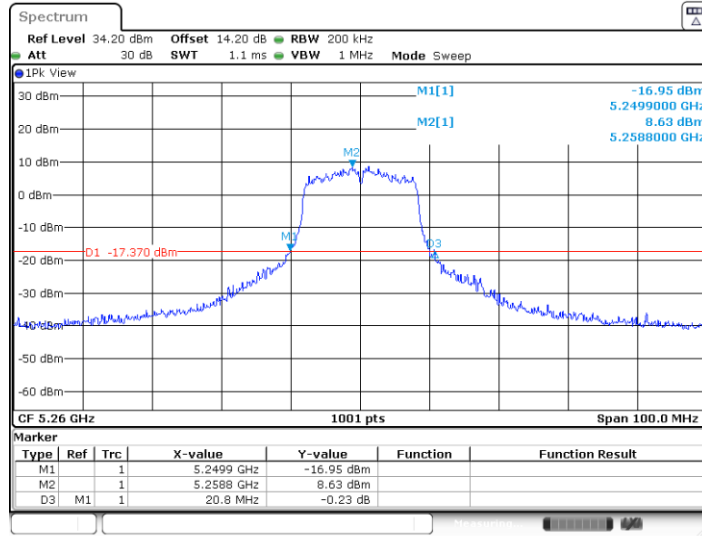
11A-CDD_Ant7_5240



Date: 28 MAY 2024 05:48:46

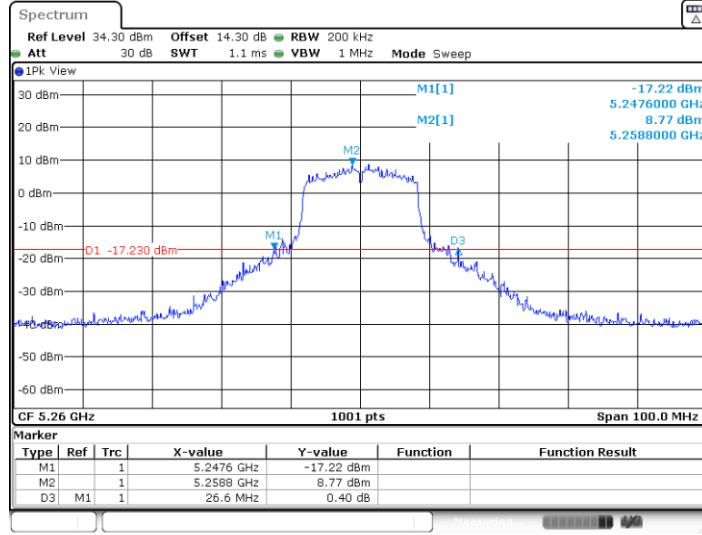


11A-CDD_Ant5_5260



Date: 28 MAY 2024 05:49:24

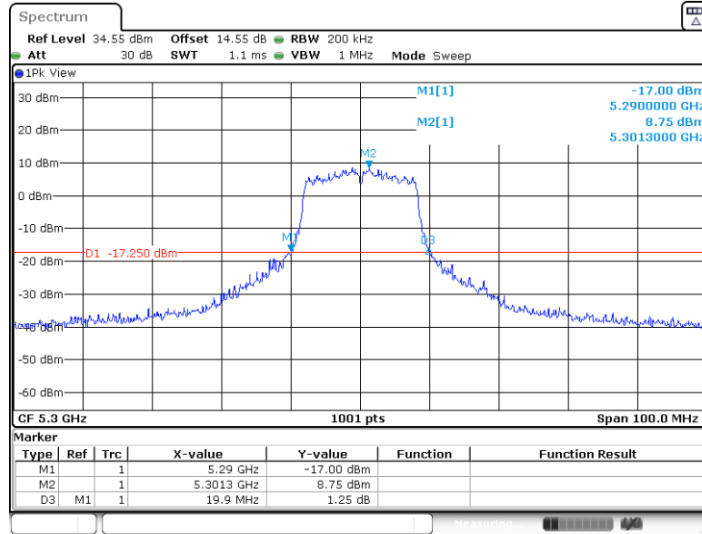
11A-CDD_Ant7_5260



Date: 28 MAY 2024 05:51:06

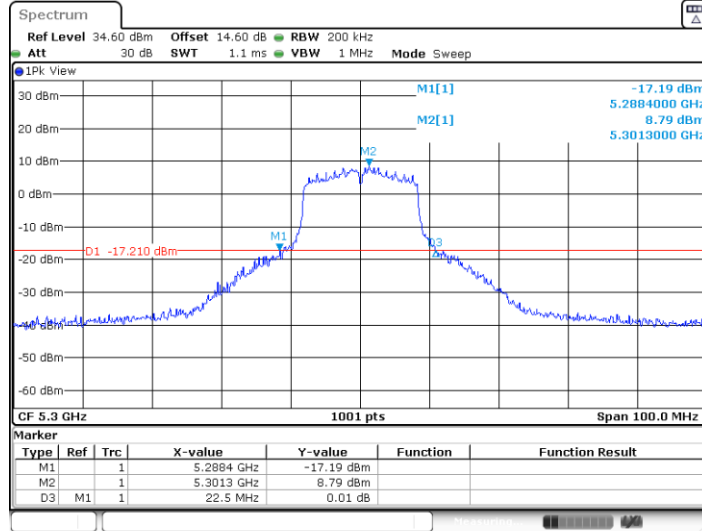


11A-CDD_Ant5_5300



Date: 28 MAY 2024 05:51:39

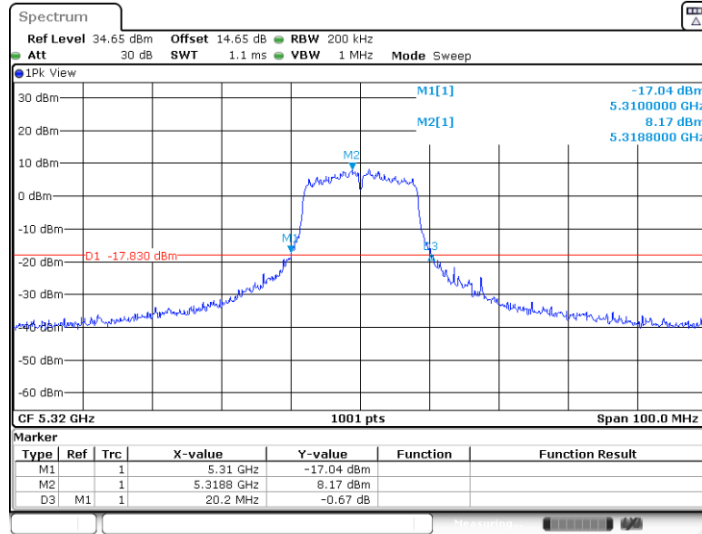
11A-CDD_Ant7_5300



Date: 28 MAY 2024 05:52:02

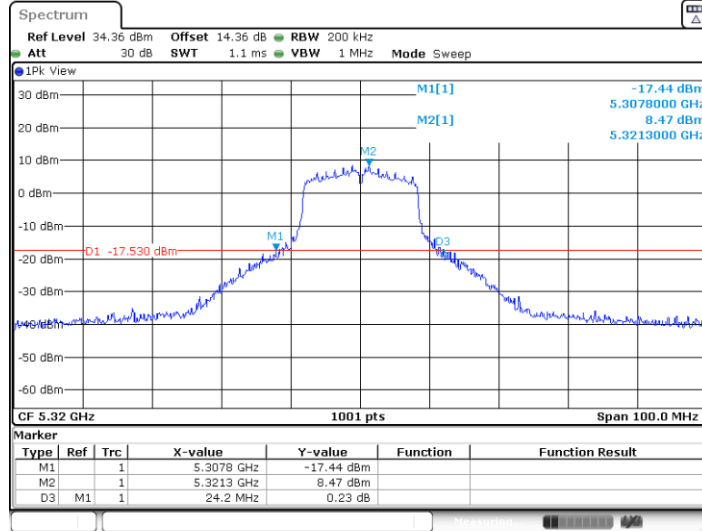


11A-CDD_Ant5_5320



Date: 28 MAY 2024 05:53:12

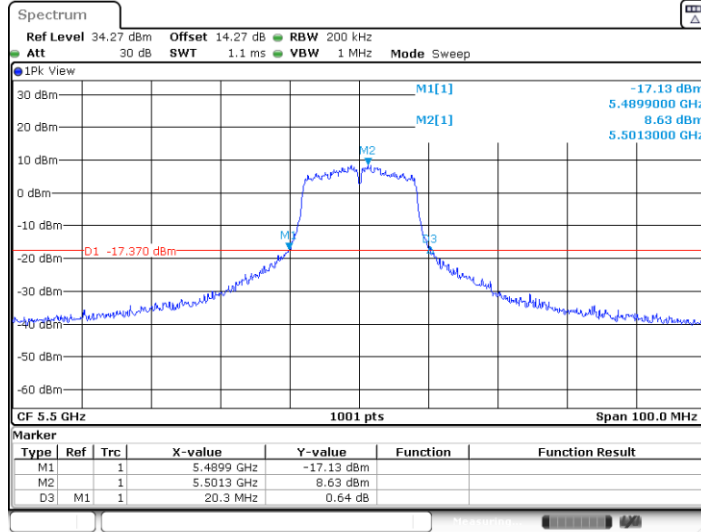
11A-CDD_Ant7_5320



Date: 28 MAY 2024 05:53:34

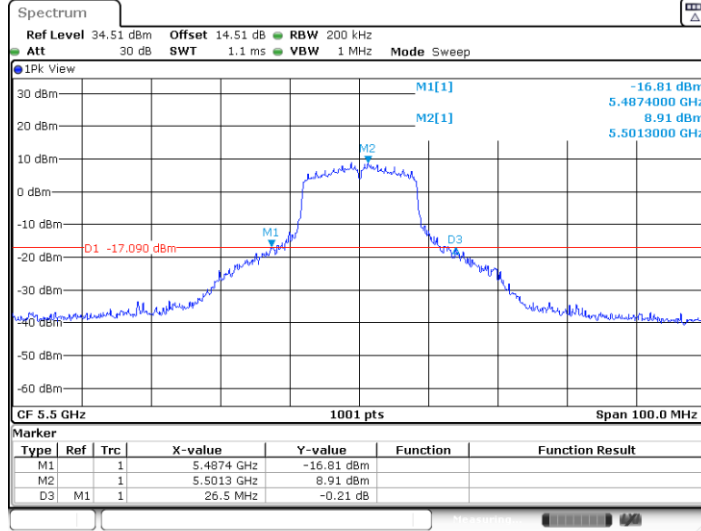


11A-CDD_Ant5_5500



Date: 28 MAY 2024 05:55:27

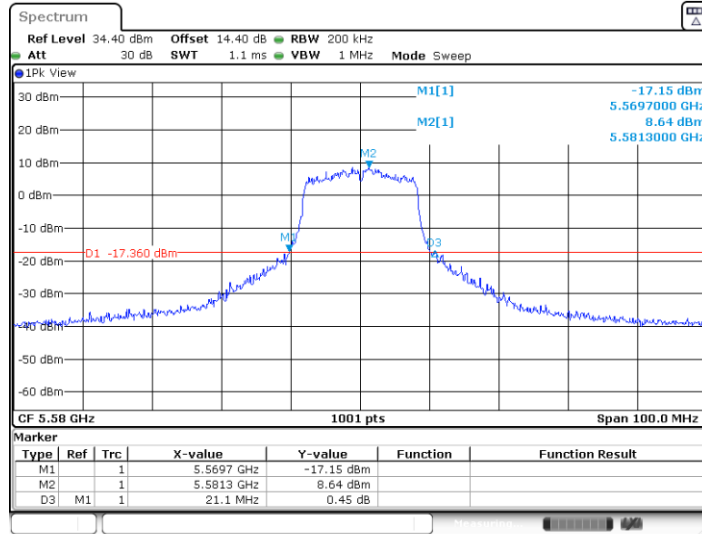
11A-CDD_Ant7_5500



Date: 28 MAY 2024 05:55:51

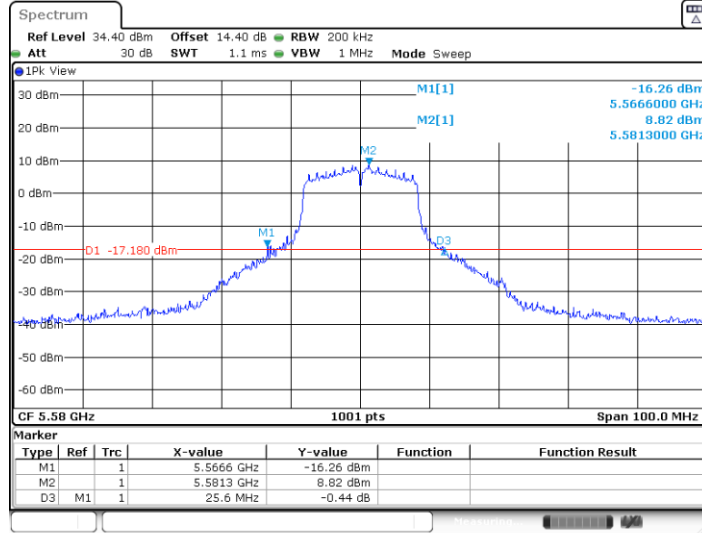


11A-CDD_Ant5_5580



Date: 28 MAY 2024 06:00:23

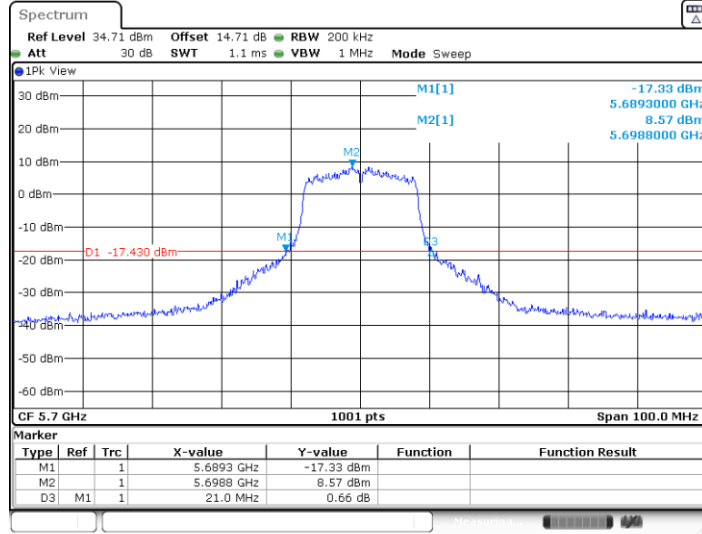
11A-CDD_Ant7_5580



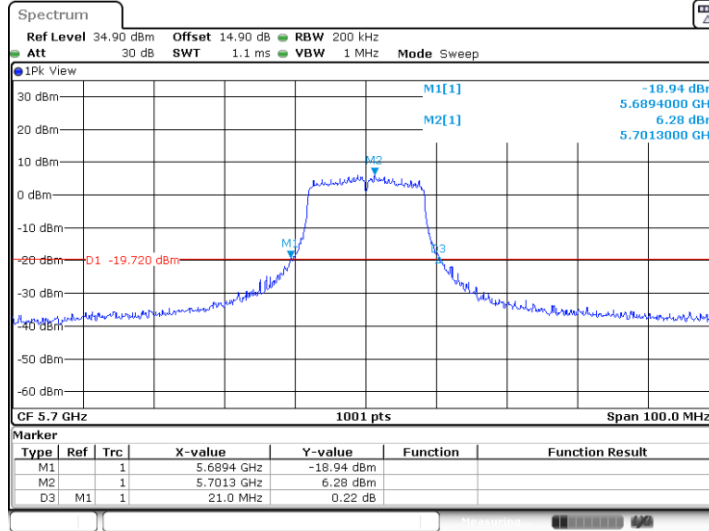
Date: 28 MAY 2024 06:00:46



11A-CDD_Ant5_5700

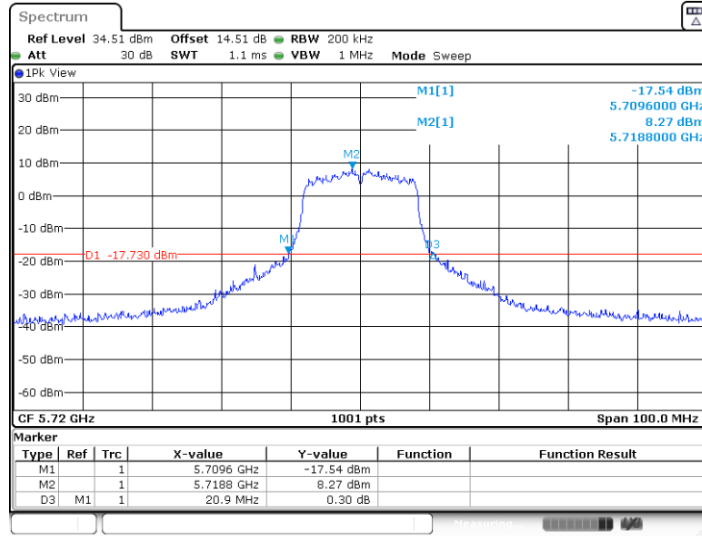


11A-CDD_Ant7_5700



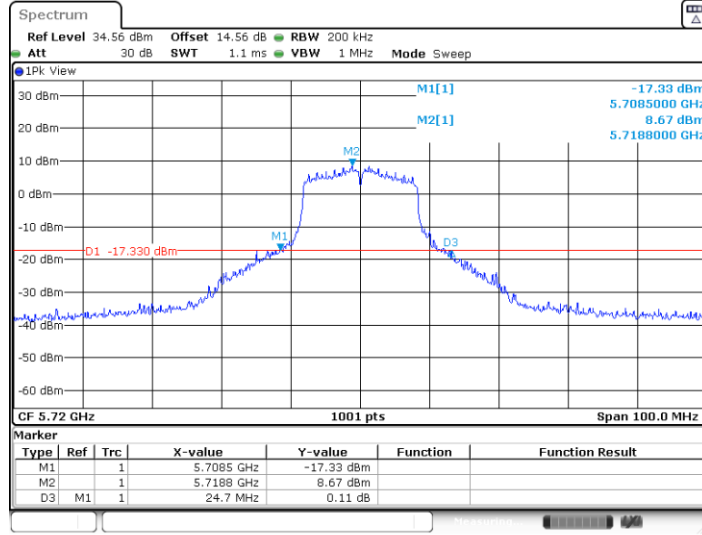


11A-CDD_Ant5_5720

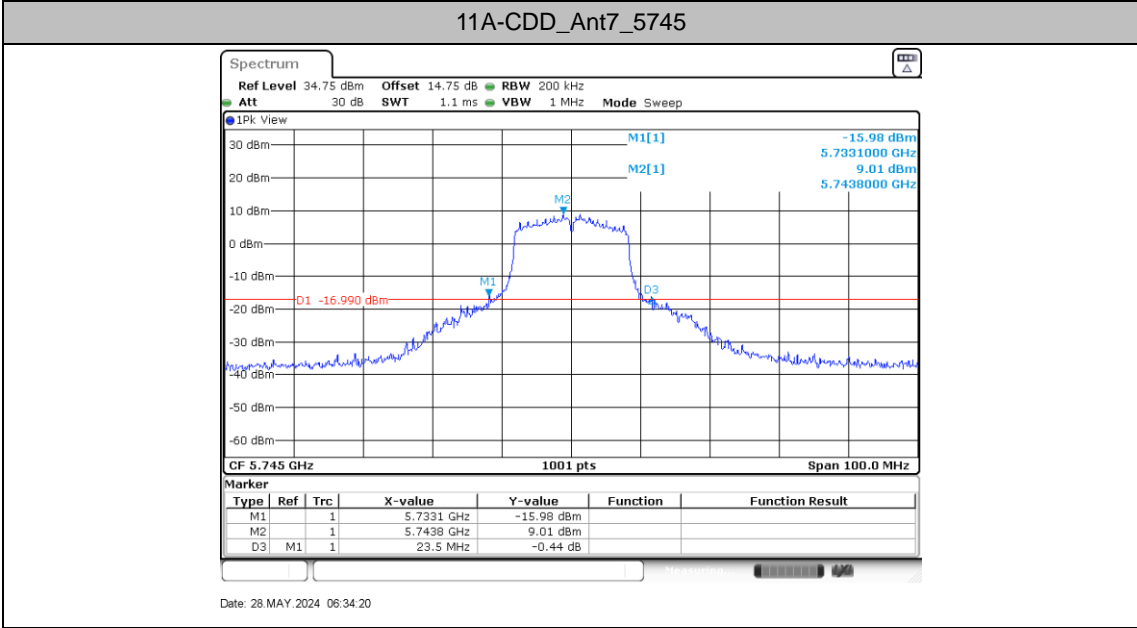
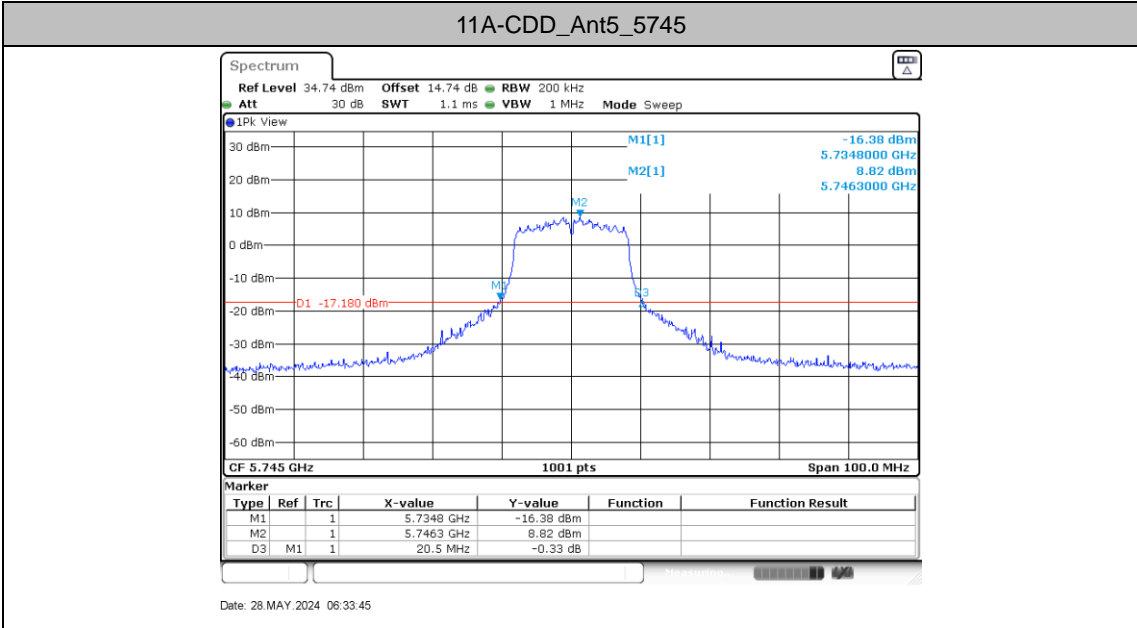


Date: 28 MAY 2024 06:15:53

11A-CDD_Ant7_5720

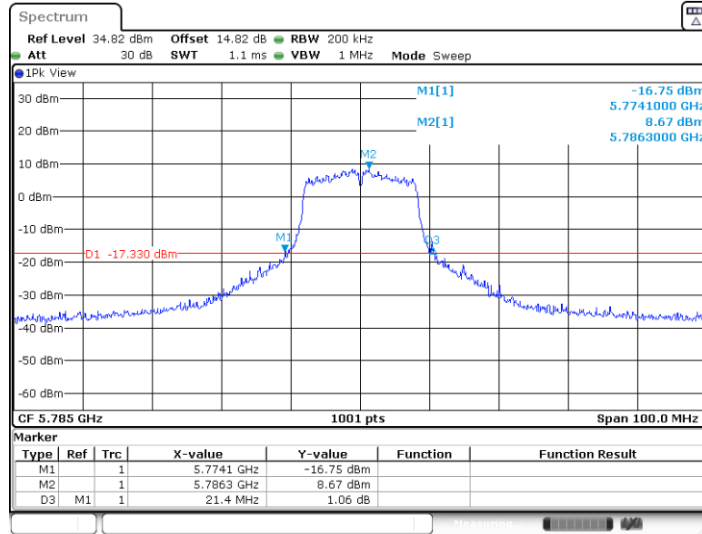


Date: 28 MAY 2024 06:16:25



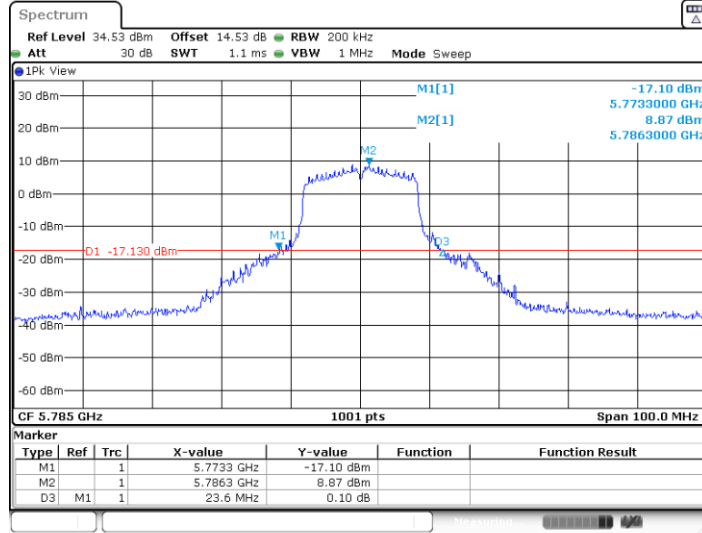


11A-CDD_Ant5_5785



Date: 28 MAY 2024 06:35:13

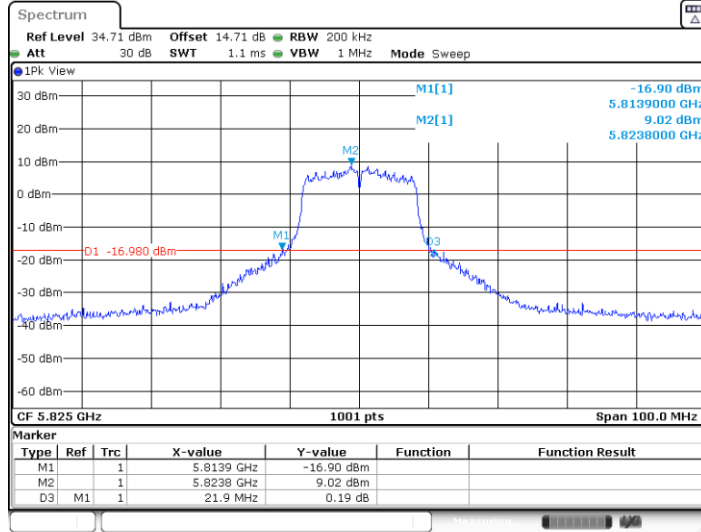
11A-CDD_Ant7_5785



Date: 28 MAY 2024 06:35:47

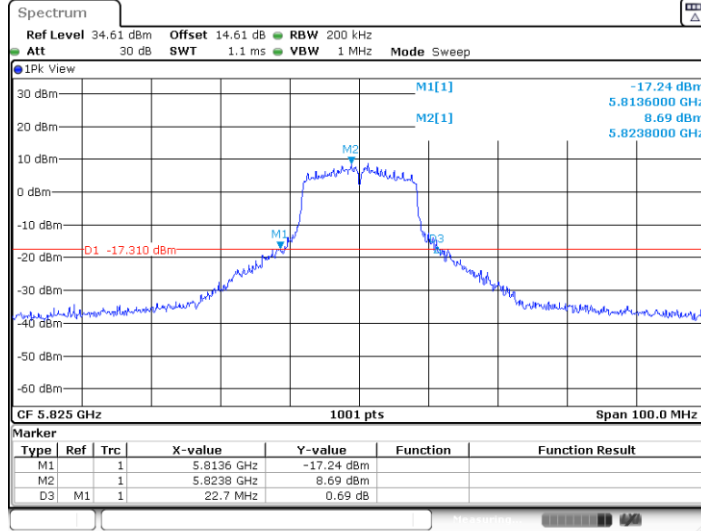


11A-CDD_Ant5_5825



Date: 28 MAY 2024 06:36:32

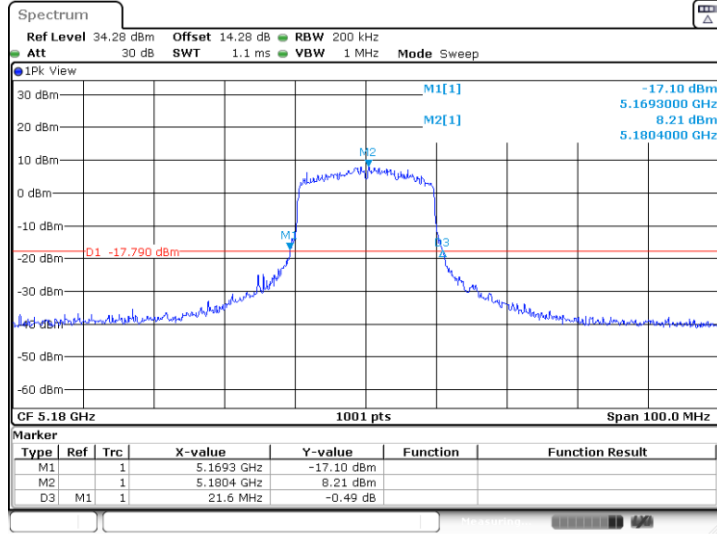
11A-CDD_Ant7_5825



Date: 28 MAY 2024 06:37:09

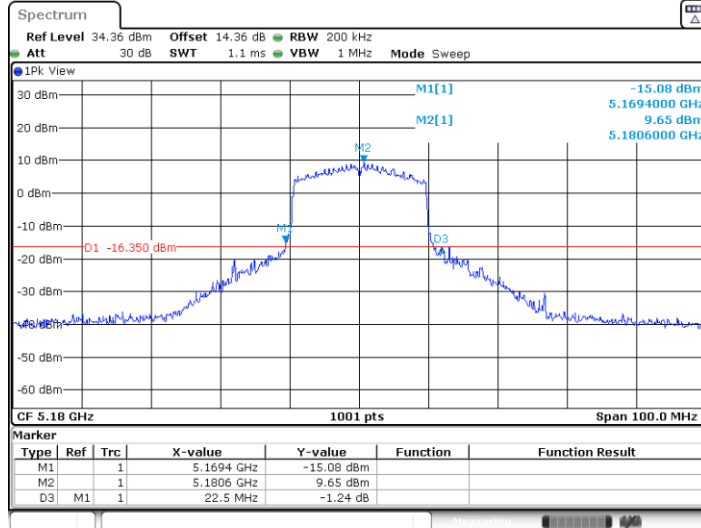


11AX20MIMO_Ant5_5180



Date: 25 JUN 2024 09:58:21

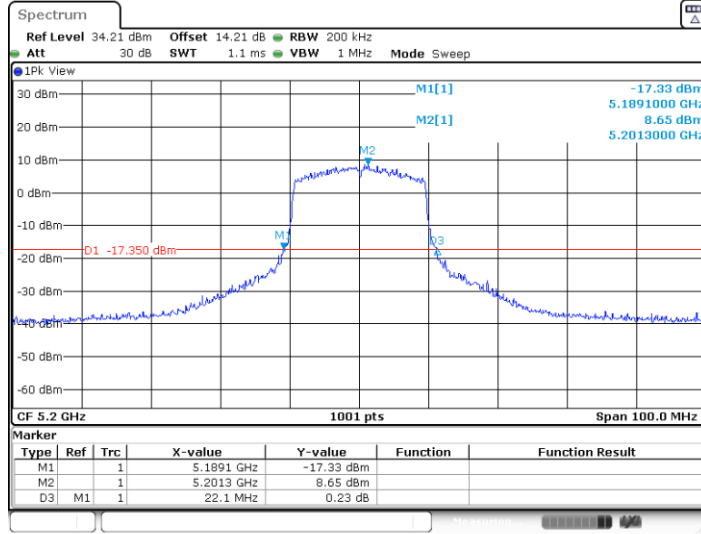
11AX20MIMO_Ant7_5180



Date: 28 MAY 2024 06:39:19

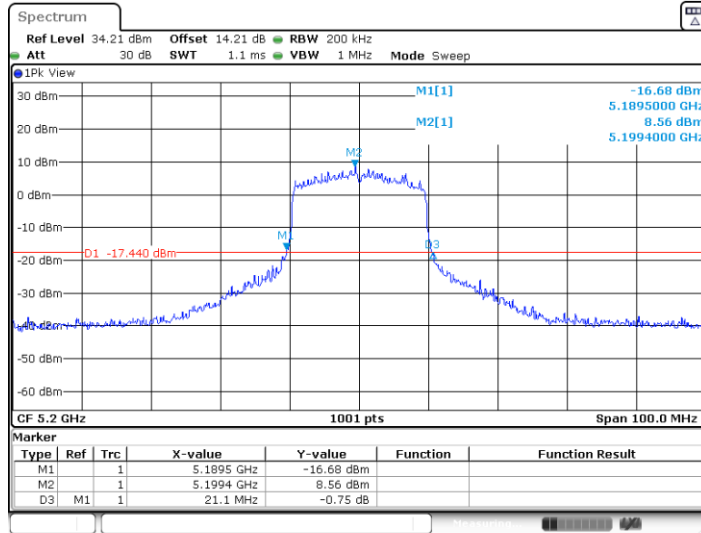


11AX20MIMO_Ant5_5200



Date: 22.JUN.2024 14:17:35

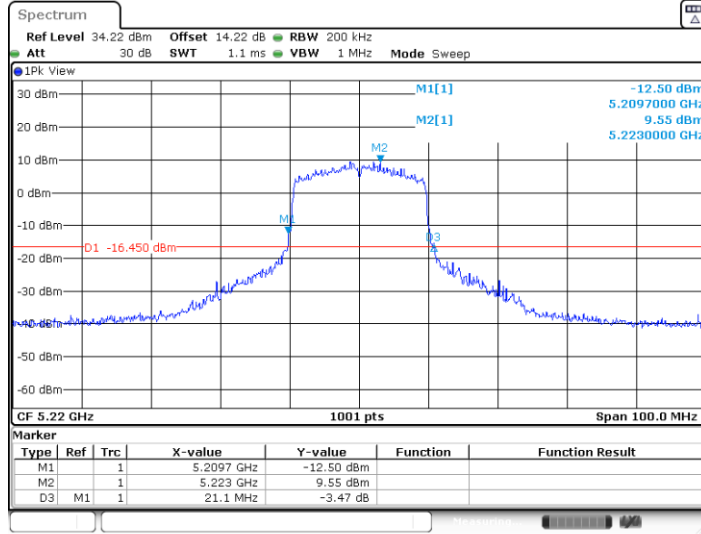
11AX20MIMO_Ant7_5200



Date: 22.JUN.2024 14:17:59

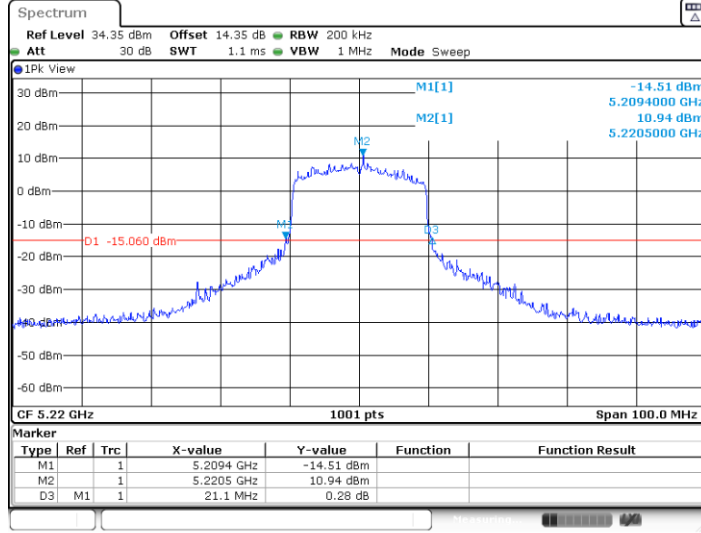


11AX20MIMO_Ant5_5220



Date: 28 MAY 2024 06:40:34

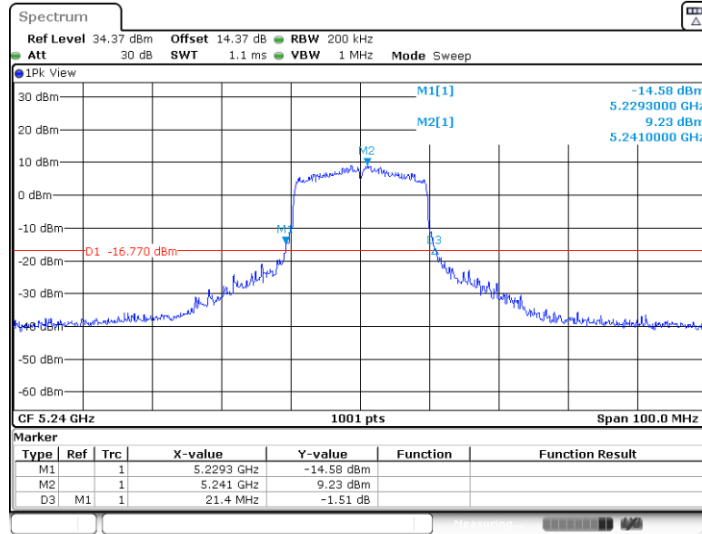
11AX20MIMO_Ant7_5220



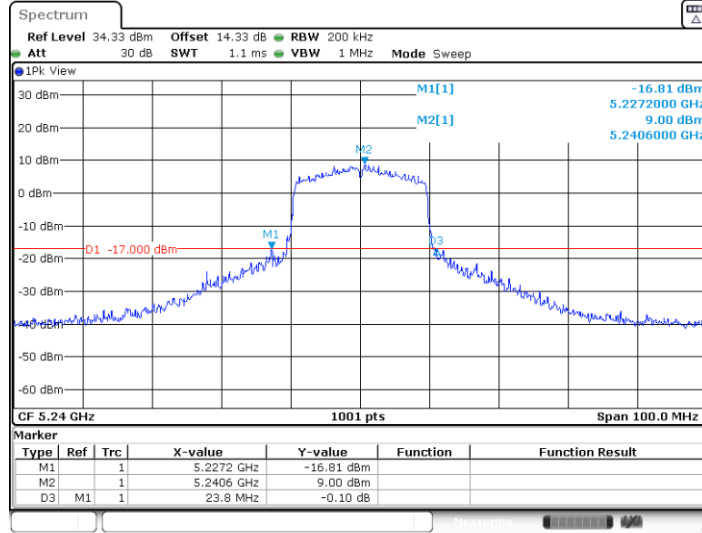
Date: 28 MAY 2024 06:40:56



11AX20MIMO_Ant5_5240

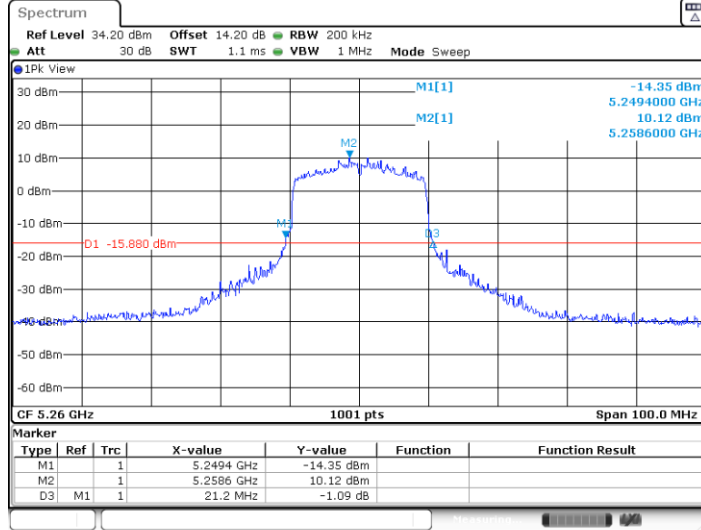


11AX20MIMO_Ant7_5240



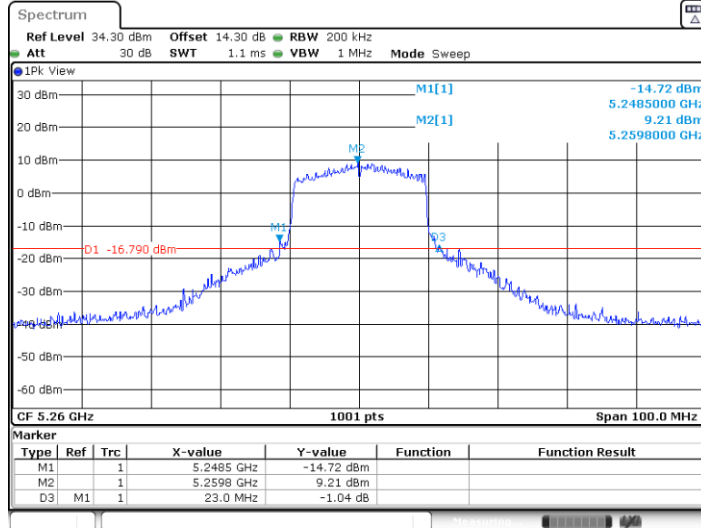


11AX20MIMO_Ant5_5260



Date: 28 MAY 2024 06:59:28

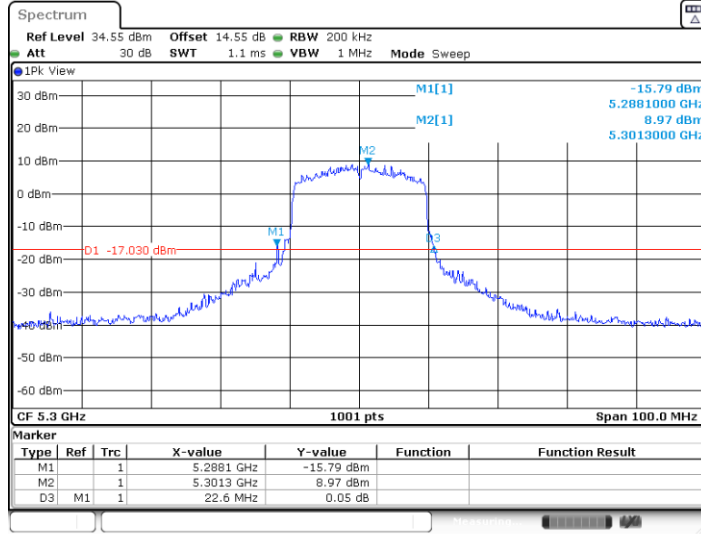
11AX20MIMO_Ant7_5260



Date: 28 MAY 2024 06:59:50

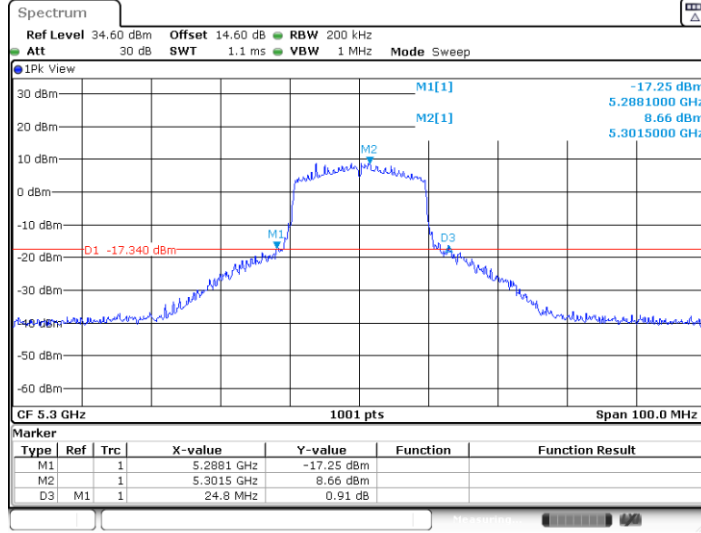


11AX20MIMO_Ant5_5300



Date: 28 MAY 2024 07:04:11

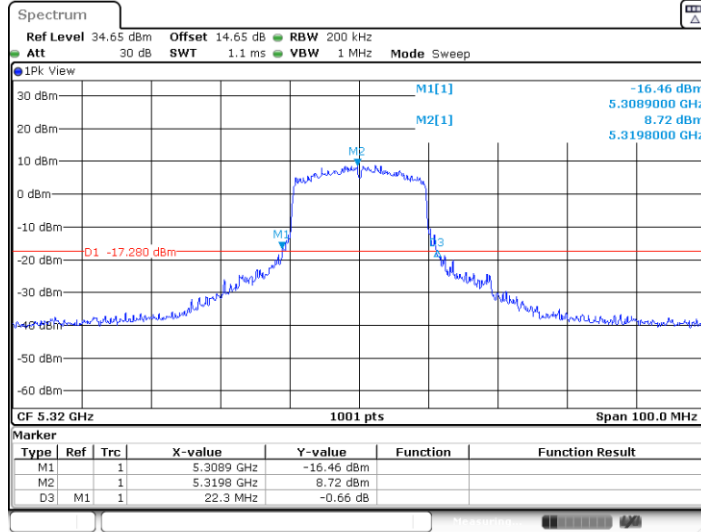
11AX20MIMO_Ant7_5300



Date: 28 MAY 2024 07:04:33

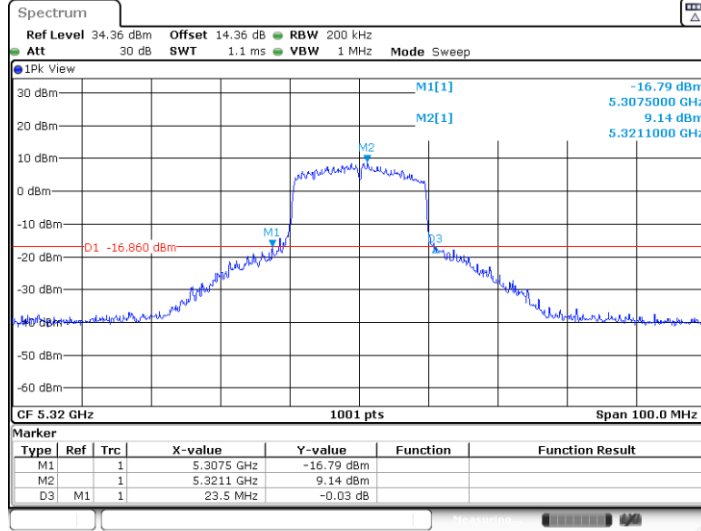


11AX20MIMO_Ant5_5320



Date: 28 MAY 2024 07:05:42

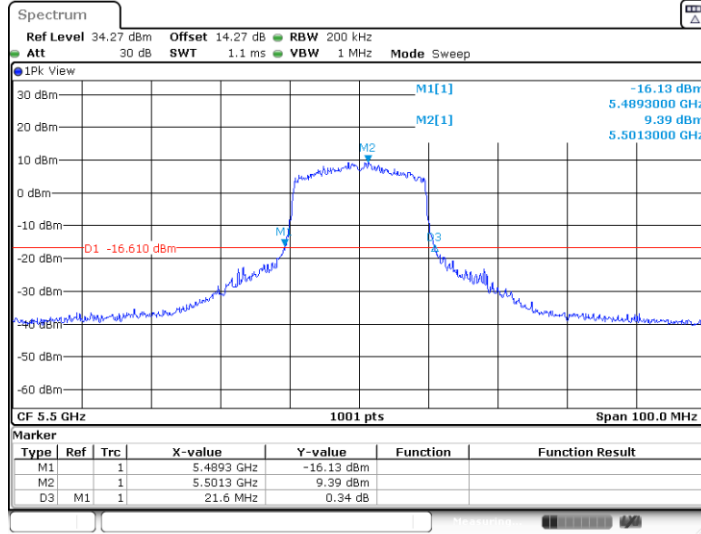
11AX20MIMO_Ant7_5320



Date: 28 MAY 2024 07:06:06

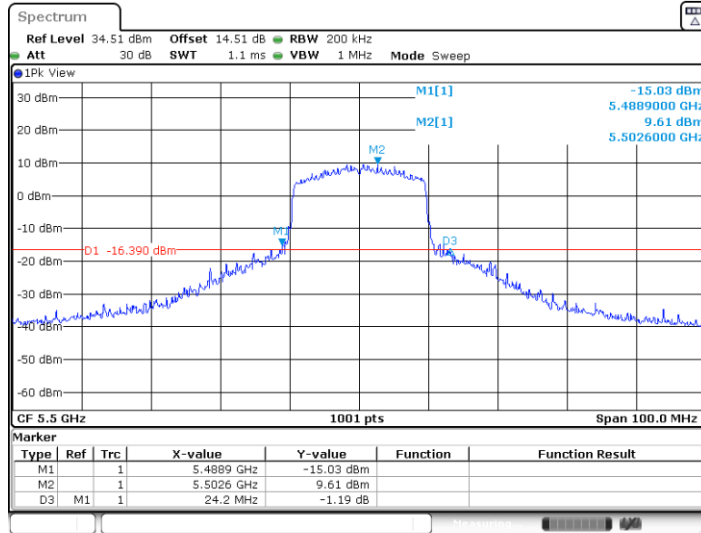


11AX20MIMO_Ant5_5500



Date: 28 MAY 2024 07:08:58

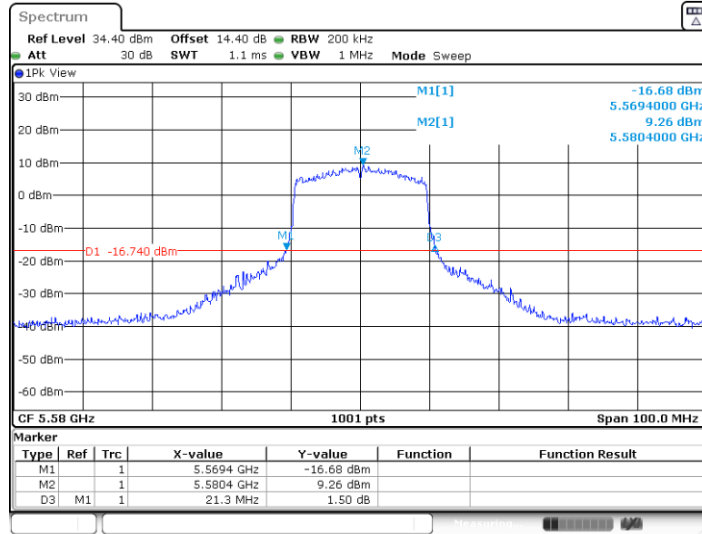
11AX20MIMO_Ant7_5500



Date: 28 MAY 2024 07:10:21

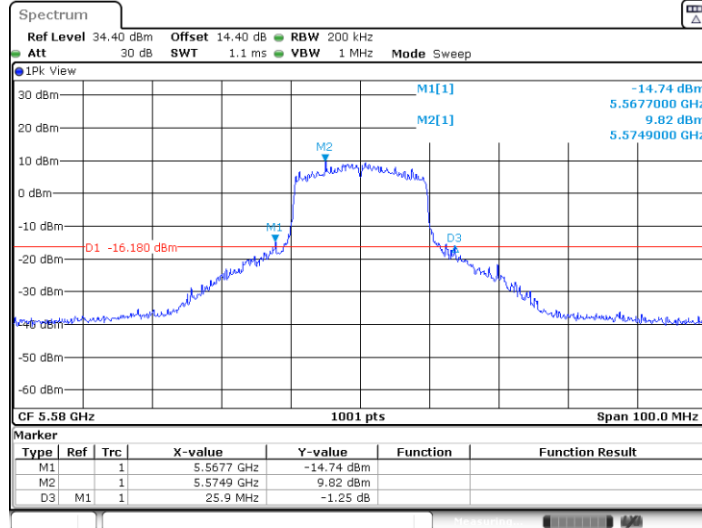


11AX20MIMO_Ant5_5580



Date: 28 MAY 2024 07:11:15

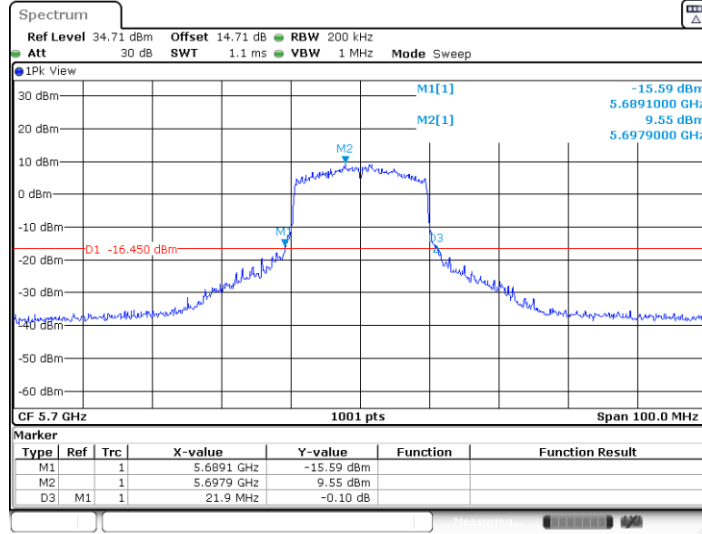
11AX20MIMO_Ant7_5580



Date: 28 MAY 2024 07:11:37

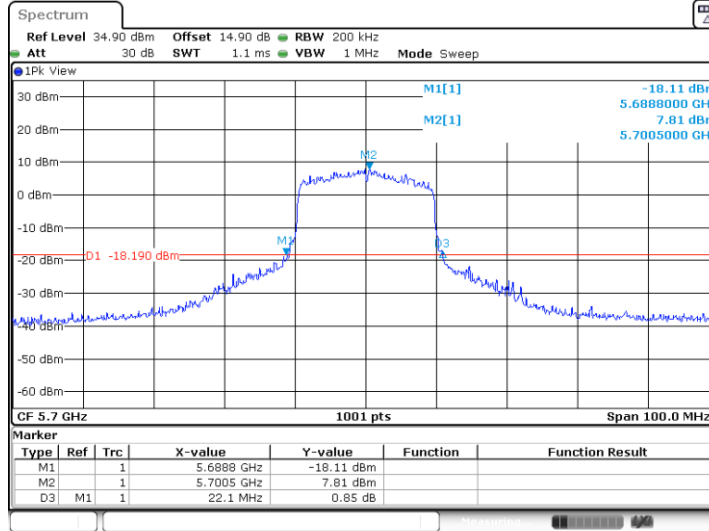


11AX20MIMO_Ant5_5700



Date: 28 MAY. 2024 07:13:19

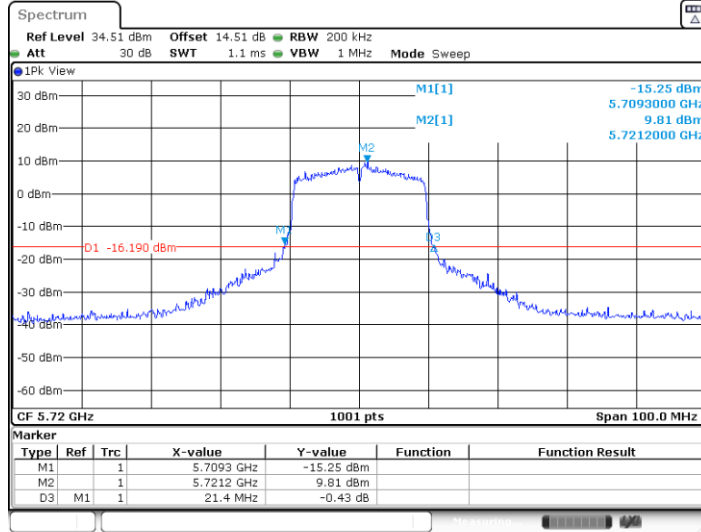
11AX20MIMO_Ant7_5700



Date: 25 JUN. 2024 09:59:41

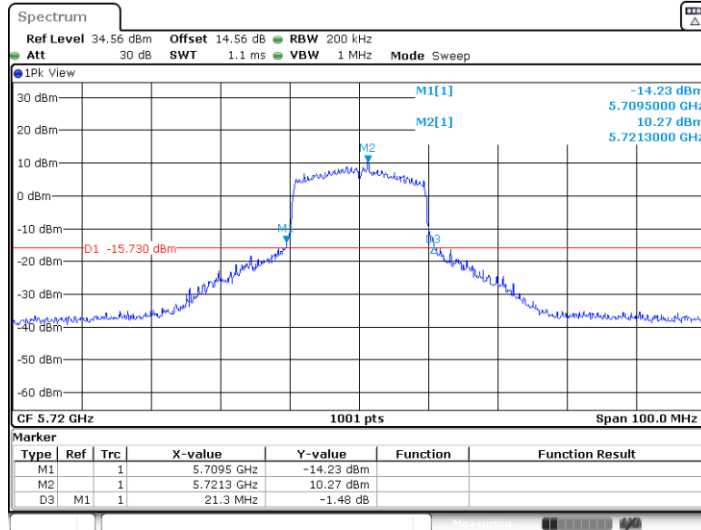


11AX20MIMO_Ant5_5720



Date: 28 MAY 2024 07:14:24

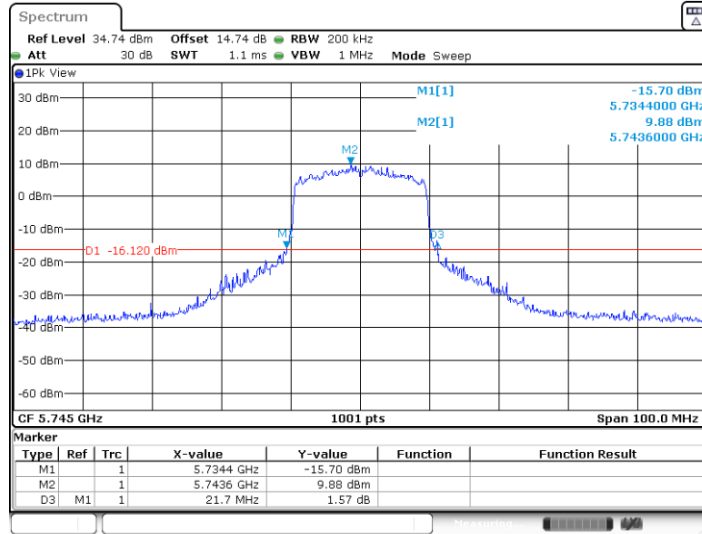
11AX20MIMO_Ant7_5720



Date: 28 MAY 2024 07:14:56

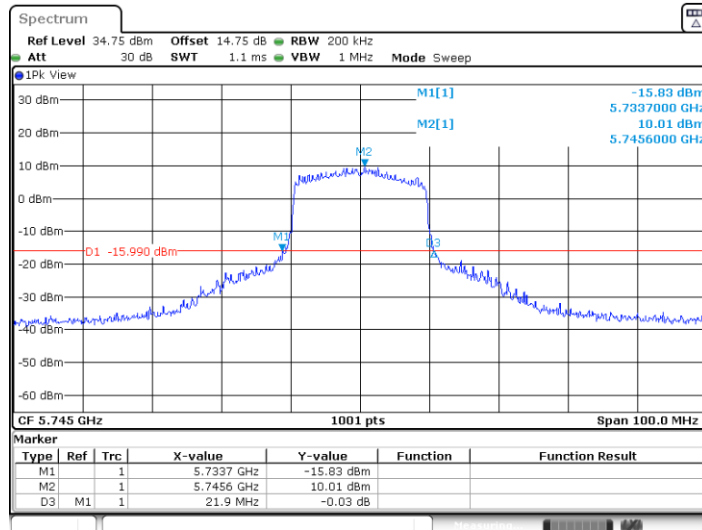


11AX20MIMO_Ant5_5745



Date: 28 MAY 2024 07:15:44

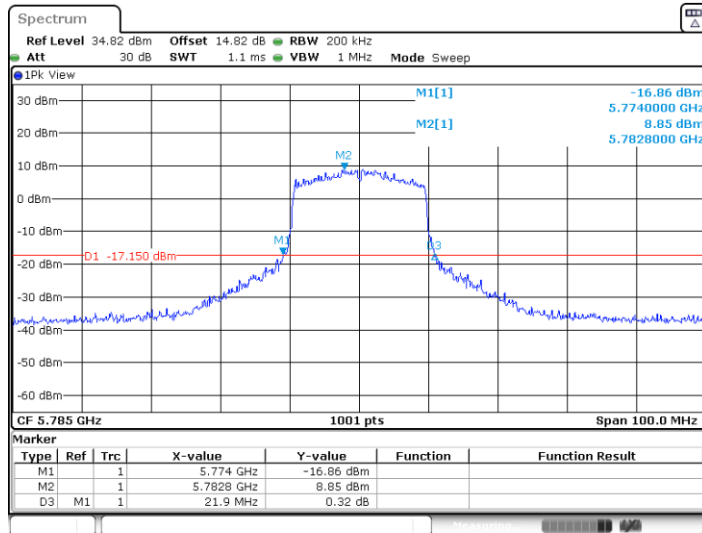
11AX20MIMO_Ant7_5745



Date: 28 MAY 2024 07:16:18

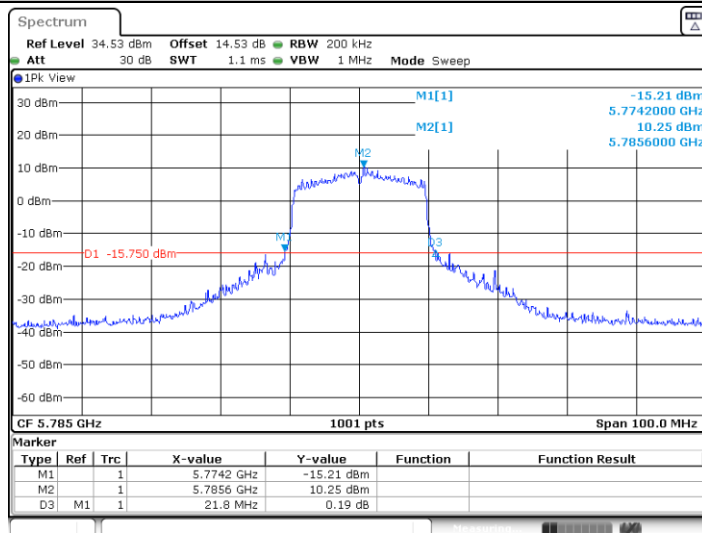


11AX20MIMO_Ant5_5785



Date: 28 MAY 2024 07:17:15

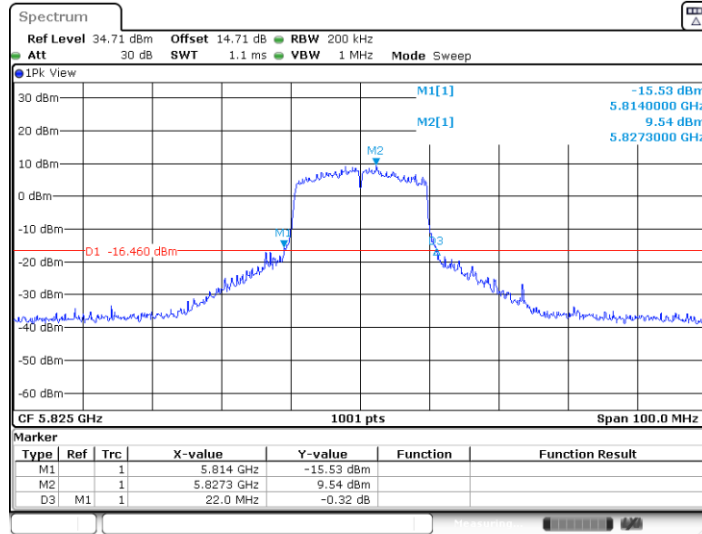
11AX20MIMO_Ant7_5785



Date: 28 MAY 2024 07:17:50

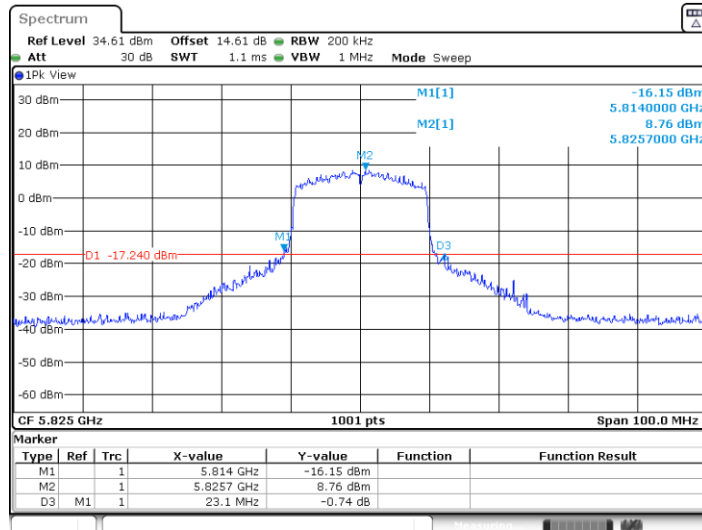


11AX20MIMO_Ant5_5825



Date: 28 MAY. 2024 07:18:59

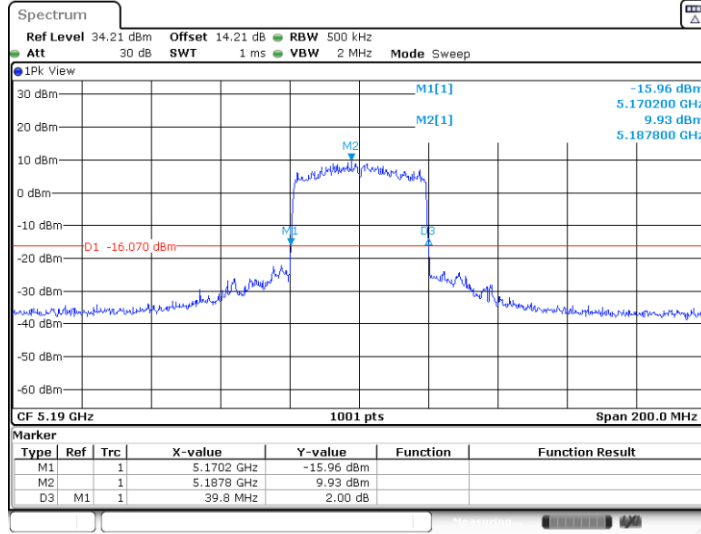
11AX20MIMO_Ant7_5825



Date: 28 MAY. 2024 07:19:33

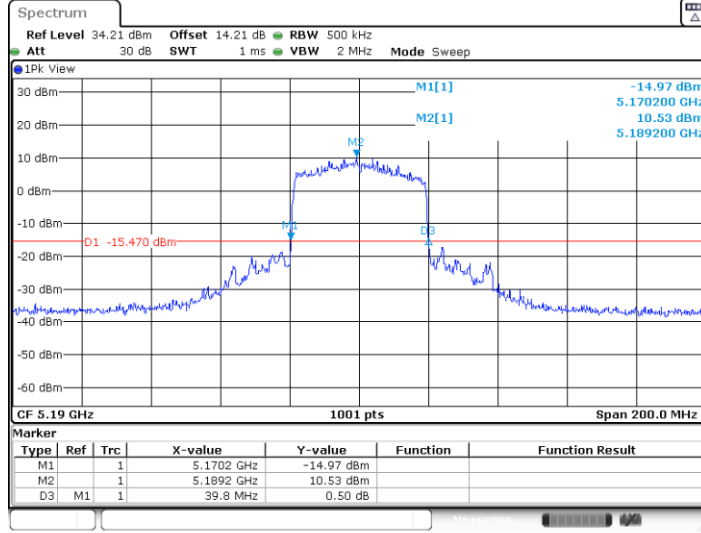


11AX40MIMO_Ant5_5190



Date: 28 MAY 2024 07:20:25

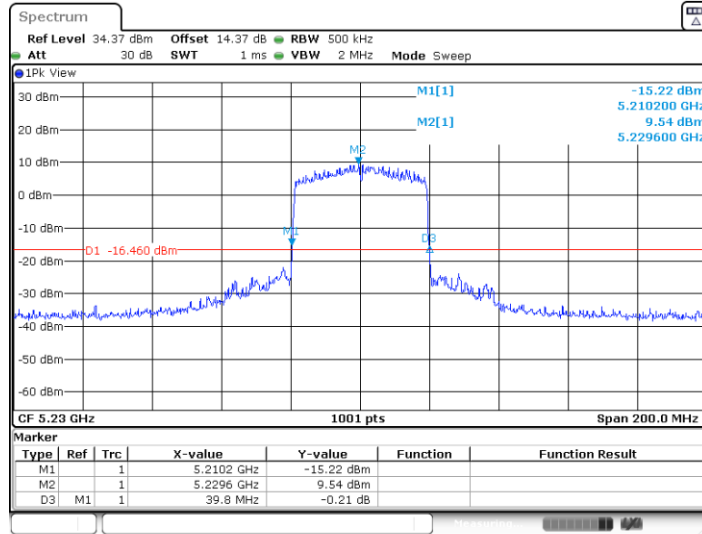
11AX40MIMO_Ant7_5190



Date: 28 MAY 2024 07:20:59

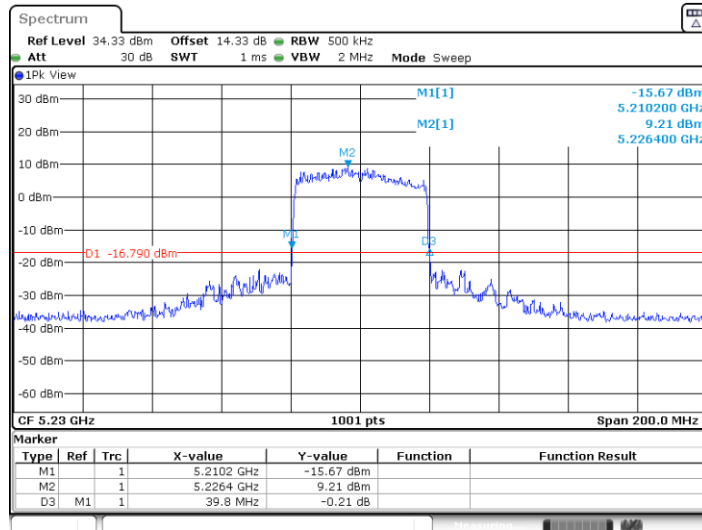


11AX40MIMO_Ant5_5230



Date: 28 MAY 2024 07:21:49

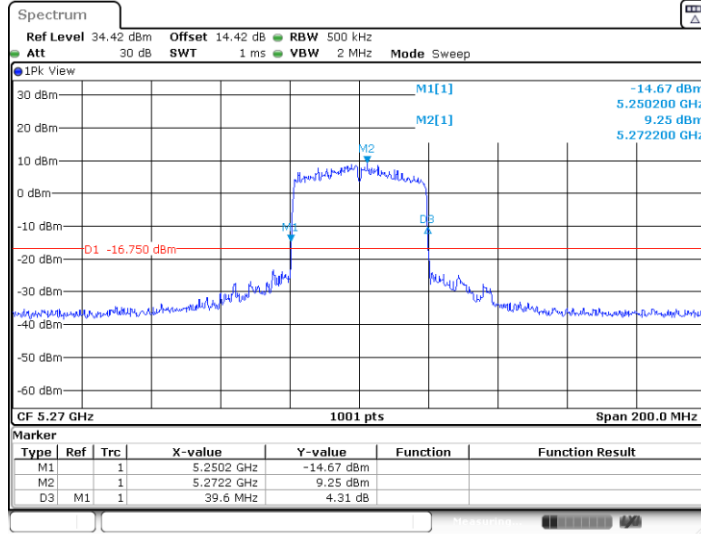
11AX40MIMO_Ant7_5230



Date: 28 MAY 2024 07:22:13

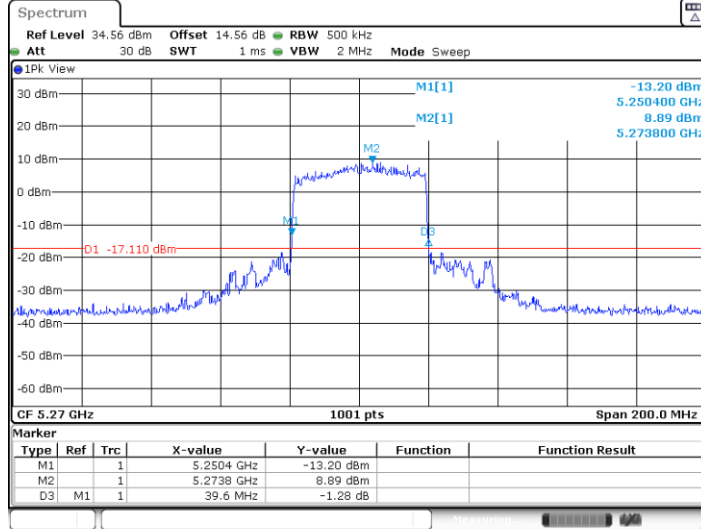


11AX40MIMO_Ant5_5270



Date: 28 MAY 2024 07:23:01

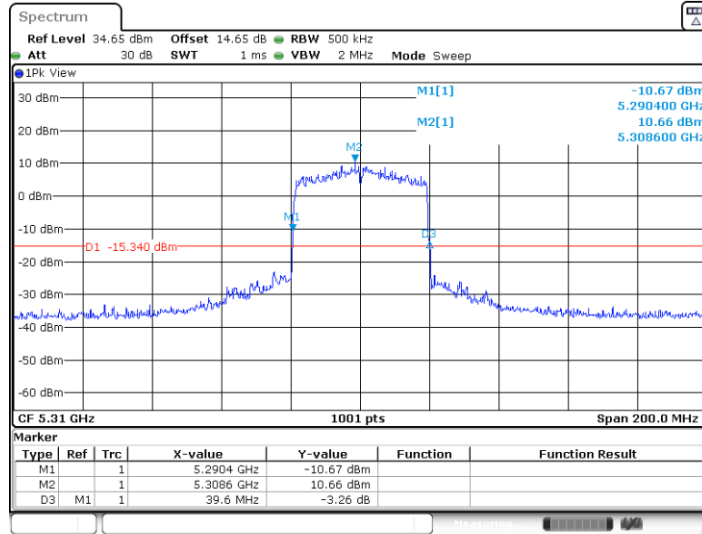
11AX40MIMO_Ant7_5270



Date: 28 MAY 2024 07:23:24

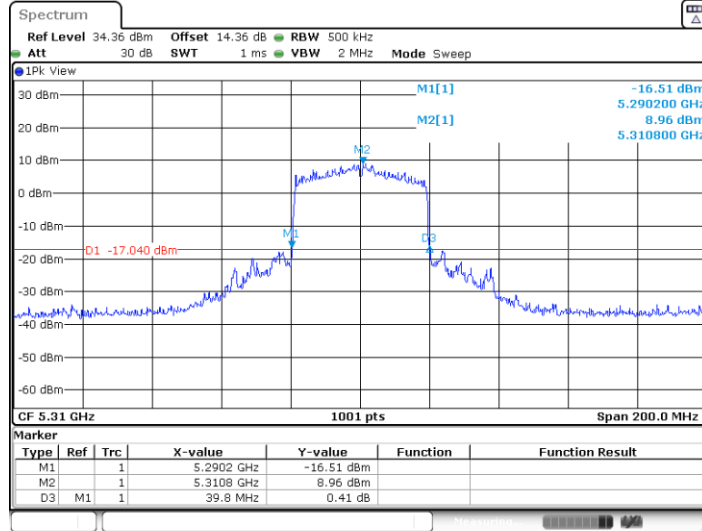


11AX40MIMO_Ant5_5310



Date: 28 MAY 2024 07:23:56

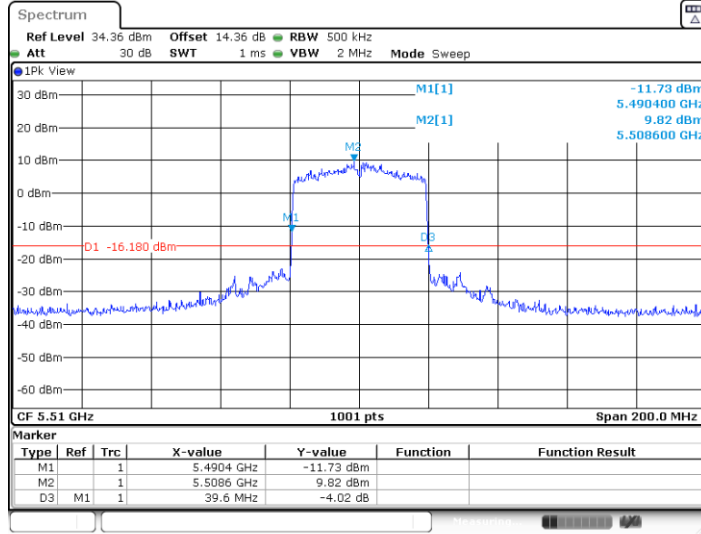
11AX40MIMO_Ant7_5310



Date: 28 MAY 2024 07:24:18

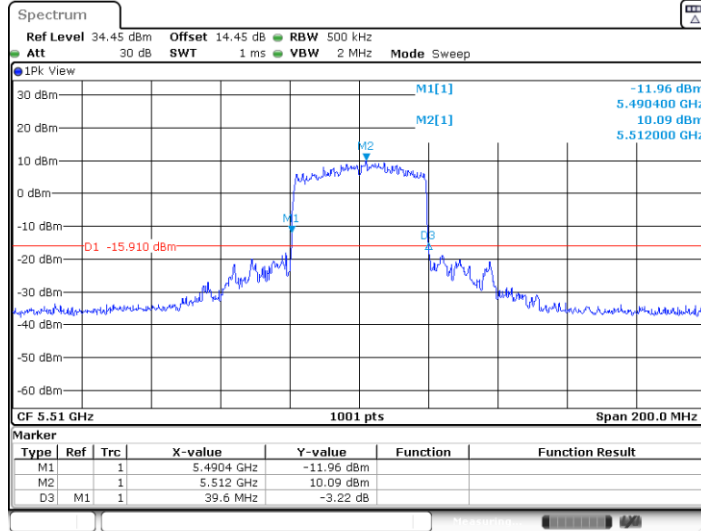


11AX40MIMO_Ant5_5510



Date: 28 MAY 2024 07:24:58

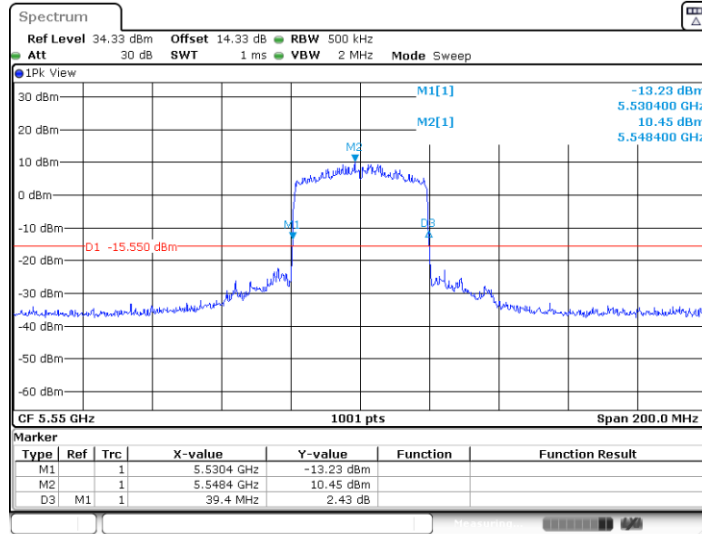
11AX40MIMO_Ant7_5510



Date: 28 MAY 2024 07:25:20

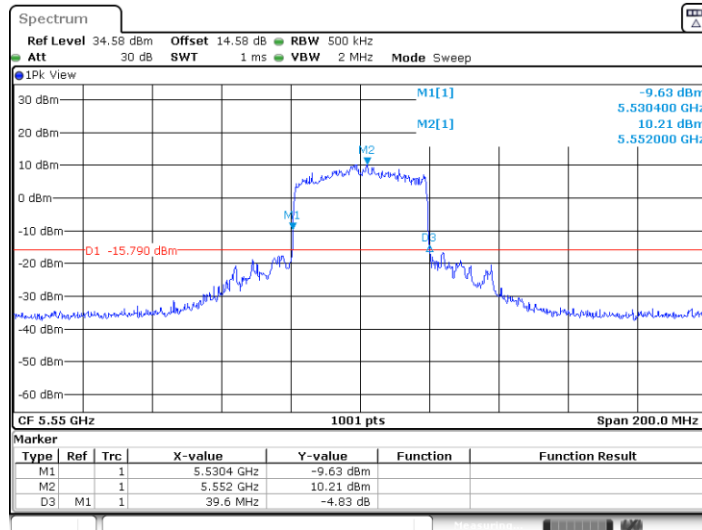


11AX40MIMO_Ant5_5550



Date: 28 MAY 2024 07:26:35

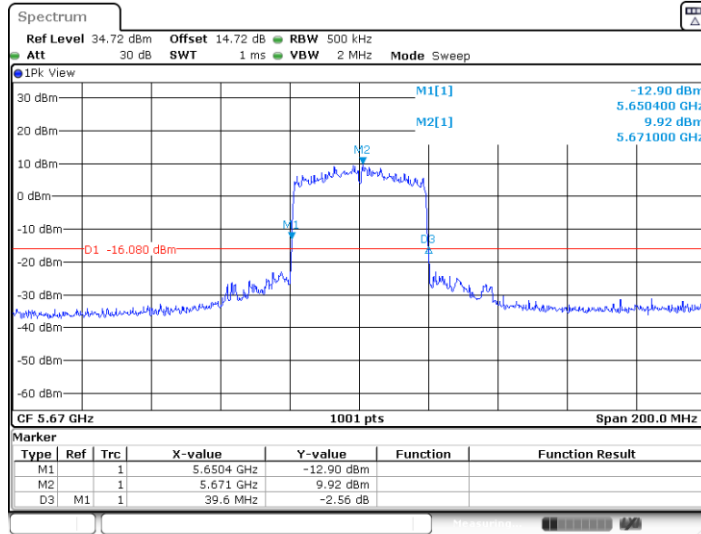
11AX40MIMO_Ant7_5550



Date: 28 MAY 2024 07:26:58



11AX40MIMO_Ant5_5670



Date: 28 MAY 2024 07:27:37

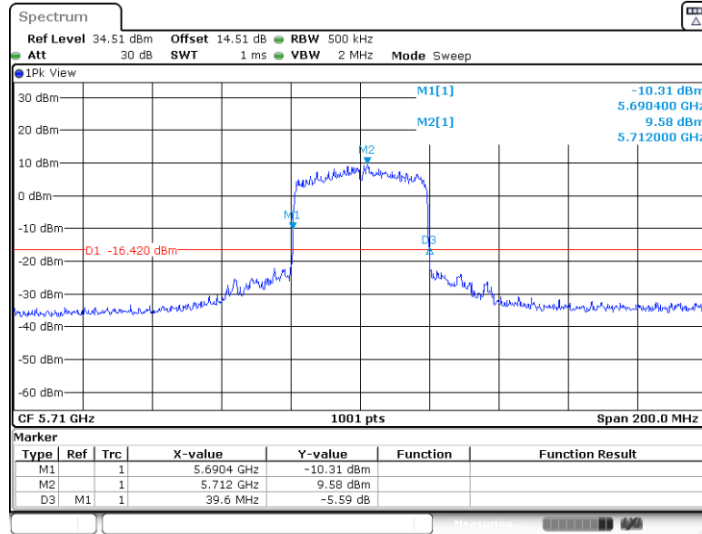
11AX40MIMO_Ant7_5670



Date: 28 MAY 2024 07:28:01

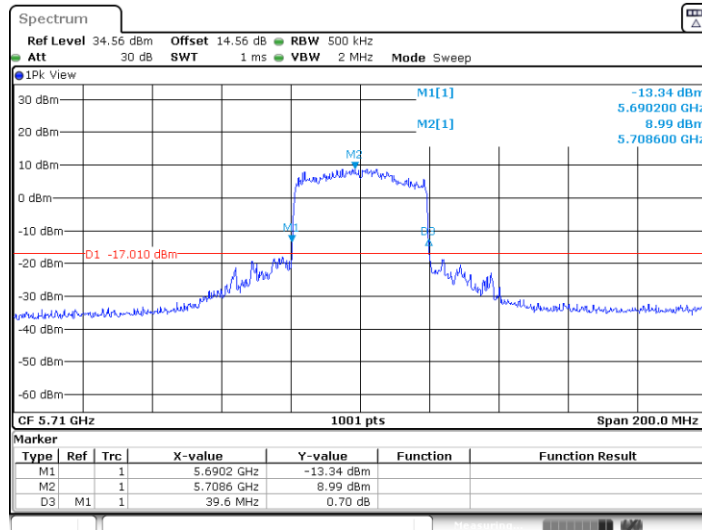


11AX40MIMO_Ant5_5710



Date: 28 MAY 2024 07:28:06

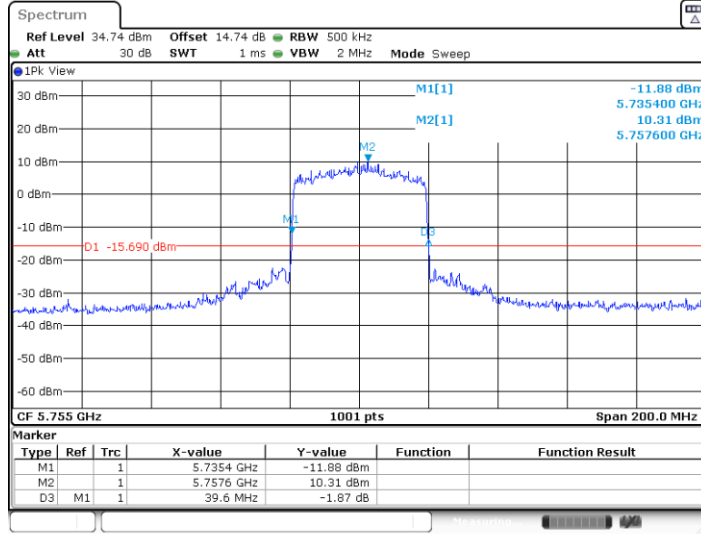
11AX40MIMO_Ant7_5710



Date: 28 MAY 2024 07:29:38

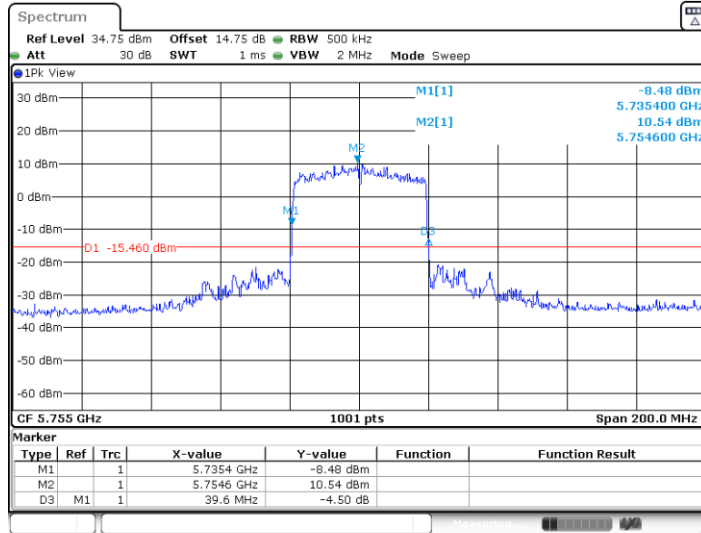


11AX40MIMO_Ant5_5755



Date: 28 MAY 2024 07:33:39

11AX40MIMO_Ant7_5755



Date: 28 MAY 2024 07:34:13